## Exhibit 5

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Page 1
1
                    Daniel Fabricant, Ph.D.
 2
            IN THE UNITED STATES DISTRICT COURT
 3
            FOR THE NORTHERN DISTRICT OF GEORGIA
 4
                      ATLANTA DIVISION
     UNITED STATES OF AMERICA,
7
               Plaintiff,
                                      Civil Action No.
8
                                      1:13-cv-13675-
       VS.
9
     UNDETERMINED QUANTITIES OF
                                     WBH-JCF
     1,3-DIMETHYLAMYLAMINE
10
     HCl (DMAA),
11
               Defendant,
12
     and
13
    HI-TECH PHARMACEUTICALS,
     INC., and JARED WHEAT,
14
              Claimants.
15
16
17
           Deposition of Daniel Fabricant, Ph.D.
                       Washington, D.C.
19
                  Monday, November 21, 2016
20
                           9:30 a.m.
21
22
23
24
     Job No. 115859
25
     Reported by: Laurie Donovan, RPR, CRR
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1	Daniel Fabricant, Ph.D.	1	Daniel Fabricant, Ph.D.
2	Deposition of	2	APPEARANCES
3	DANIEL FABRICANT, Ph.D.	3	ON BEHALF OF THE PLAINTIFF:
4	Drividd Fridige IVI, Fil.D.	4	United States Food and Drug Administration
5	Held at the offices of:	5	10903 New Hampshire Avenue
6	United States Department of Justice	6	Silver Spring, Maryland 20993
7	Consumer Protection Branch	7	By: Joshua Davenport, Esq.
8	450 5th Street, N.W.	8	By. Joshua Davenport, Esq.
9	Washington, D.C. 20001	9	- and -
10	washington, D.C. 20001	10	- and -
11		11	United States Department of Justice
12		12	450 5th Street, N.W.
13		13	Washington, D.C. 20530
14		14	By: Claude Scott, Esq.
15		15	By. Claude Scott, Esq.
16		16	
17		17	
		18	ON BEHALF OF THE DEFENDANTS:
18	T-1 h-f	19	
19	Taken pursuant to notice, before	20	Epstein Becker & Green
20	Laurie Donovan, Registered Professional	21	One Gateway Center
21	Reporter, Certified Realtime Reporter, and	22	Newark, New Jersey 07102
22	Notary public in and for the District of	1	By: Jack Wenik, Esq.
23	Columbia.	23	
24		24 25	
25		25	
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5	EXAMINATION BY MR. SCOTT 187	5	April 24, 2012, Bates HT 00572 . 71
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7		7	April 18, 2013, Bates HT 00643 . 71
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2	(Exhibits continued)	2	PROCEEDINGS
3	EXHIBIT DESCRIPTION PAGE	3	DANIEL FABRICANT, Ph.D.,
4	Exhibit 35 Email exchange between Tamara	4	having been first duly sworn, testified upon
5	Ward and Arthur Whitmore, dated	5	his oath as follows:
6	March 12, 2013, with attached	6	EXAMINATION BY COUNSEL FOR DEFENDANT
7	talked points for upcoming NBC	7	BY MR. WENIK:
8	News interview with Fabricant 170	8	Q Good morning, Dr. Fabricant, and thank
9	Exhibit 36 Email chain, Bates ElSohly 2890. 172	9	you for coming.
10	Exhibit 37 Agenda for 17th Annual Oxford	10	Have you been deposed before?
11	International Conference on the	11	A Yes.
12	Science of Botanicals, April	12	Q So I assume you're somewhat familiar
13	2013 175	13	with the procedure, but for the benefit of the
14	Exhibit 38 Multi-Center Study Showing the	14	record, I'll put a couple of things before you.
15	Absence of DMAA in Pelargonium . 177	15	One is that your testimony is being
16	Exhibit 39 Email chain with attached tables	16	taken under oath, so we need an oral response for
17	and chromatograms, Bates number	17	the stenographer, not a nod of the head or a
18	ElSohly 2267 179	18	gesture.
19		19	The other thing is if I ask you a
20		20	question and you didn't hear it, didn't understand
21		21	it, you know, please speak up, ask me to rephrase
22		22	or repeat it. Otherwise, I'll assume you've
23		23	understood the question and heard it.
24		24	And if I use a term, particularly a
25		25	medical or scientific term, improperly or
	Page 12		Page 13
1	Daniel Fabricant, Ph.D.	1	Daniel Fabricant, Ph.D.
2	mispronounce it, feel free to correct me.	2	Daniel Fabricant, Ph.D. something is inappropriate, but other than an
2 3	mispronounce it, feel free to correct me.  Other than that, do you have any	2 3	Daniel Fabricant, Ph.D. something is inappropriate, but other than an instruction not to answer a question because of
2 3 4	mispronounce it, feel free to correct me.  Other than that, do you have any questions for me before we begin?	2 3 4	Daniel Fabricant, Ph.D. something is inappropriate, but other than an instruction not to answer a question because of some privilege, you should put an answer on the
2 3 4 5	mispronounce it, feel free to correct me.  Other than that, do you have any questions for me before we begin?  A No.	2 3 4 5	Daniel Fabricant, Ph.D. something is inappropriate, but other than an instruction not to answer a question because of some privilege, you should put an answer on the record. Okay?
2 3 4 5 6	mispronounce it, feel free to correct me.  Other than that, do you have any questions for me before we begin?  A No.  (Exhibit 1 was marked for	2 3 4 5 6	Daniel Fabricant, Ph.D. something is inappropriate, but other than an instruction not to answer a question because of some privilege, you should put an answer on the record. Okay?  So just a couple of housekeeping things.
2 3 4 5 6 7	mispronounce it, feel free to correct me.  Other than that, do you have any questions for me before we begin?  A No.  (Exhibit 1 was marked for identification.)	2 3 4 5 6 7	Daniel Fabricant, Ph.D. something is inappropriate, but other than an instruction not to answer a question because of some privilege, you should put an answer on the record. Okay?  So just a couple of housekeeping things. Could you state and spell your full name for the
2 3 4 5 6 7 8	mispronounce it, feel free to correct me.  Other than that, do you have any questions for me before we begin?  A No.  (Exhibit 1 was marked for identification.)  BY MR. SCOTT:	2 3 4 5 6 7 8	Daniel Fabricant, Ph.D. something is inappropriate, but other than an instruction not to answer a question because of some privilege, you should put an answer on the record. Okay?  So just a couple of housekeeping things. Could you state and spell your full name for the record?
2 3 4 5 6 7 8	mispronounce it, feel free to correct me.  Other than that, do you have any questions for me before we begin?  A No.  (Exhibit 1 was marked for identification.)  BY MR. SCOTT:  Q So, Doctor, I've placed before you what	2 3 4 5 6 7 8 9	Daniel Fabricant, Ph.D. something is inappropriate, but other than an instruction not to answer a question because of some privilege, you should put an answer on the record. Okay?  So just a couple of housekeeping things. Could you state and spell your full name for the record?  A Daniel Stuart Fabricant, D-A-N-I-E-L,
2 3 4 5 6 7 8 9	mispronounce it, feel free to correct me.  Other than that, do you have any questions for me before we begin?  A No.  (Exhibit 1 was marked for identification.)  BY MR. SCOTT:  Q So, Doctor, I've placed before you what I've marked as Fabricant Exhibit 1, the subpoena	2 3 4 5 6 7 8 9	Daniel Fabricant, Ph.D. something is inappropriate, but other than an instruction not to answer a question because of some privilege, you should put an answer on the record. Okay?  So just a couple of housekeeping things. Could you state and spell your full name for the record?  A Daniel Stuart Fabricant, D-A-N-I-E-L, S-T-U-A-R-T, F-A-B-R-I-C-A-N-T.
2 3 4 5 6 7 8 9 10	mispronounce it, feel free to correct me.  Other than that, do you have any questions for me before we begin?  A No.  (Exhibit 1 was marked for identification.)  BY MR. SCOTT:  Q So, Doctor, I've placed before you what I've marked as Fabricant Exhibit 1, the subpoena for testimony in this case, and you are appearing	2 3 4 5 6 7 8 9 10	Daniel Fabricant, Ph.D. something is inappropriate, but other than an instruction not to answer a question because of some privilege, you should put an answer on the record. Okay?  So just a couple of housekeeping things. Could you state and spell your full name for the record?  A Daniel Stuart Fabricant, D-A-N-I-E-L, S-T-U-A-R-T, F-A-B-R-I-C-A-N-T.  Q And what is your business address,
2 3 4 5 6 7 8 9 10 11	mispronounce it, feel free to correct me.  Other than that, do you have any questions for me before we begin?  A No.  (Exhibit 1 was marked for identification.)  BY MR. SCOTT:  Q So, Doctor, I've placed before you what I've marked as Fabricant Exhibit 1, the subpoena for testimony in this case, and you are appearing pursuant to the subpoena in this matter?	2 3 4 5 6 7 8 9 10 11	Daniel Fabricant, Ph.D. something is inappropriate, but other than an instruction not to answer a question because of some privilege, you should put an answer on the record. Okay?  So just a couple of housekeeping things. Could you state and spell your full name for the record?  A Daniel Stuart Fabricant, D-A-N-I-E-L, S-T-U-A-R-T, F-A-B-R-I-C-A-N-T.  Q And what is your business address, Doctor?
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	Page 14		Page 15
1	Daniel Fabricant, Ph.D.	1	Daniel Fabricant, Ph.D.
2	your CV.	2	cases?
3	First of all, have you ever testified	3	A No. Regulatory, dealing with regulatory
4	let me rephrase that.	4	status of ingredients, safety/toxicology of
5	Have you ever been retained as an expert	5	ingredients, FDA Food, Drug and Cosmetic Act law.
6	witness in a litigation?	6	Q All right. Have you ever testified in a
7	A Yes.	7	court of law as an expert as opposed to a
8	Q All right. In what sort of subject	8	deposition?
9	matters have you been retained as an expert?	9	A Only my divorce hearing.
10	A Regulatory status, chemistry,	10	Q I don't need to go into that.
11	toxicology, foods and dietary supplements.	11	I take it in those three matters you
12	Q And have those matters been where you've	12	prepared expert reports of some sort?
13	been retained by the government or private	13	A I did.
14	industry?	14	Q Okay. Other than the divorce matter
15	A Private industry.	15	which I'm not interested in, have you ever
16	Q Okay, and how often have you been	16	testified in a public trial or arbitration or
17	retained as an expert?	17	hearing of any sort?
18	A Three cases.	18	A No.
19	Q And do you remember the names of those	19	Q Have you ever
20	cases?	20	A Well, actually, two Senate hearings
21	A Yes. Two are under seal, but it's	21	would count, I guess, under that, in front of
22	they're both against Monster Energy, and one was a	22	Senate Judiciary in 2009, in front of Senate
23	company called Happy versus Procter & Gamble.	23	Commerce in 2014.
24	Q And what sort of matters were these?	24	Q Okay. What was the subject matter of
25	Were these patent cases, intellectual property	25	what you testified?
	The second secon	-	
	Page 16		Page 17
1	Page 16  Daniel Fabricant Ph D	1	Page 17 Daniel Fabricant Ph D
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	Page 18		Page 19
1	Daniel Fabricant, Ph.D.	1	Daniel Fabricant, Ph.D.
2	A That's correct.	2	A Yes.
3	Q And is that from the University of	3	Q And did you work with Dr. Van Breeman?
4	Illinois Chicago?	4	A He wasn't my advisor, but he was on my
5	A Yes.	5	defense committee, my dissertation defense
6	Q When did you get that?	6	committee.
7	A 2005.	7	Q Okay. What is your view of the academic
8	Q Any other graduate degrees or other	8	reputation of Dr. Van Breeman?
9	higher education?	9	A Very good.
10	A The government sent us to Harvard	10	Q Have any questions about his integrity?
11	Kennedy School for the Strategic Management of	11	A No reason to.
12	Regulatory and Enforcement Agencies. We did that	12	Q His scientific knowledge?
13	in 2012.	13	A No reason to.
14	Q I suppose I should ask, even though I	14	Q And what was the subject of your
15	know what it means, but to flesh out the record,	15	dissertation?
16	what is pharmacognosy?	16	A Black cohosh. It's a plant that grows
17	A It's the study of natural products.	17	in the Appalachians. It's used for menopause.
18	It's development of medicines from generally	18	Q Have you published any articles or
19	plants.	19	research in peer-reviewed literature?
20	Q And were you involved in, when you were	20	A Yes.
21	having your course work in the Ph.D., in research	21	Q Approximately how many articles have you
22	into botanicals?	22	published?
23	A Yes.	23	A About 20.
24	Q And was that as part of the Botanical	24	Q And what are the, generally, the subject
25	Research Center at the University of Illinois?	25	areas of interest to you in your research that
	Page 20		Page 21
1			1436 21
1 1	Daniel February Dh D	1	Daniel Febriaant Dh D
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1	Daniel Fabricant, Ph.D.	1	Daniel Fabricant, Ph.D.
2	Q Let me ask you a little bit about some	2	products to market?
3	of your prior positions. I understand that you	3	A No.
4	worked for Consumer Labs at one point?	4	Q Would it do it on behalf of other
5	A Yes.	5	companies?
6	Q What was your position with Consumer	6	A Consumer Lab was a they did
7	Labs?	7	independent testing of products that were already
8	A I was the assistant director for	8	available for purchase at the consumer level.
9	research.	9	Q I see, and how long did you hold this
10		10	position with Consumer Labs?
11	Q And when was that? A 2005.	11	A For 11 months.
12		12	Q And I understand that you've had a
13	Q And what were your duties as assistant director for research?	13	couple of different stints with the Natural
14		14	Products Association; is that right?
	A Coordinated testing, both in the US and	15	
15 16	Japan, of a variety of consumer health products,	16	A Two. O Tell me about the first one. What was
	primarily dietary supplements, and interpreted the	17	•
17	research results for publication. That's kind		your positions and when was it and what did you
18	of that was the base of it. Obviously there	18	do?
19	were a lot of other things involved, but that was	19	A First I was hired in January of 2006 to
20	largely the base of it.	20	be the vice president of science and regulatory
21	And I also was the spokesperson	21	affairs.
22	sometimes for the organization, and I evaluated	22	Q So would that have been right after you
23	lab capabilities in terms of which labs were doing	23	completed your Ph.D. that you began that position?
24	things the right way and which labs weren't.	24	A Well, when I was at Consumer Lab, I had
25	Q So did Consumer Labs actually bring	25	finished my Ph.D. I just needed to defend it,
	Page 24		Page 25
1	Daniel Fabricant, Ph.D.	1	Daniel Fabricant, Ph.D.
2	so	2	know, we had, we had everything in the right
3	Q So it would be your Ph.D., Consumer	3	place. Assumed the role of the chief of all
4	Labs, then NPA; is that right?	4	advocacy functions, both domestic and abroad. We
5	A Yes.	5	had a number of contracts as well, both with NIH
6	Q Okay. So that first position, you were	6	and with Department of Commerce.
7	vice president of scientific affairs? Is that	7	So it was pretty extensive, my role as
8	what you said?	8	CEO in that short period of time, but we got a lot
9	A Scientific and regulatory.	9	done, it's about a three and a half million
10	Q And how long did you do that for?	10	dollars organization. At that time we had 16
11	A These years, three and a half years	11	full-time staff, so obviously in charge of
12	until I became interim CEO.	12	financially making sure that we were doing the
13	Q Okay, and what were your duties as the	13	right things.
14	vice president of scientific affairs?	14	Q What individuals or entities forms the
15	A Well, I was the organization's lead on	15	bulk of the membership of the NPA, what sorts of
16	all things scientific on interaction with	16	entities or members of the Natural Products
17	scientific bodies, federal agencies, both domestic	17	Association?
18	and abroad. Corralled the association members on	18	A It's split between manufacturers and
19	different scientific positions. I wrote all the	19	retailers of natural health foods, natural
20	association's positions and comments on regulatory	20	products.
21	and scientific matters, as well as a spokesperson	21	Q All right. Let's put the FDA aside for
22	for the organization.	22	a moment.
23	Q All right, and what did you do as the	23	A Okay.
I-	interim CEO?	24	Q So you're currently the CEO of the
24 25	memices:	25	Natural Products Association; is that right?

	Page 26		Page 27
1	Daniel Fabricant, Ph.D.	1	Daniel Fabricant, Ph.D.
2	A I am.	2	Q I see, and when did you do that?
3	Q And are the duties that you have now	3	A In 1997.
4	similar to what you described or the same as when	4	MR. WENIK: All right. So let me
5	you were the interim CEO?	5	discuss for a moment before I begin talking
6	A No. There's a lot more going on, so	6	about the FDA so gentlemen, I'm going to
7	they're enhanced.	7	be showing Dr. Fabricant certain documents
8	Q All right. How are they enhanced?	8	that are subject to the protective order, so
9	A It's just very active. I think we're	9	rather than stop at each point in the
10	much more active congressionally, much more active	10	deposition, what I propose is we just go
11	in that regard.	11	through it, and after it's transcribed, you
12	Q All right. So were there any other	12	can designate whatever portions of the
13	positions that we've not discussed that you've	13	transcript you'd like as confidential or
14	held? We talked about Consumer Labs, we talked	14	subject to the protective order rather than
15	about NPA, and we're going to talk about the FDA	‡ 1 ‡ 5	interrupt and put that on the record for each
16	in a little bit. Anything other than that that	16	document.
17	you've done occupation-wise?	† 7	MR. SCOTT: Are these documents
18	A Well, I was employed by the University	‡ ′ 18	that the government designated as
19	of Illinois when I was a graduate student. I was	19	confidential?
20	a research assistant. I had fellowships from NIH	20	MR. WENIK: Correct.
21	<u> </u>	21	MR. SCOTT: Well, that process is
22	Pharmaceuticals. They were based in south	22	fine for those. Are there any that third
23	Florida. They no longer function. I was an R&D	23	parties have designated?
24	· · · · · · · · · · · · · · · · · · ·	24	MR. WENIK: Not that I know of.
25		25 25	What I'll be showing him that's designated as
	Page 28		Page 29
1	Daniel Fabricant, Ph.D.	1	Daniel Fabricant, Ph.D.
2	confidential was by the government.	1 -	
4	COMPONIAL WAS DV THE SOVERHINGHI.	2	
2		2	Supplement Programs.
3	MR. SCOTT: Okay, and that's fine.	3	Supplement Programs.  Q Okay, and what were your duties in that
4	MR. SCOTT: Okay, and that's fine. I think there's a provision in the protective	3 4	Supplement Programs.  Q Okay, and what were your duties in that position?
4 5	MR. SCOTT: Okay, and that's fine. I think there's a provision in the protective order that gives us some period of time to do	3 4 5	Supplement Programs.  Q Okay, and what were your duties in that position?  A I was the agency's lead in all things
4 5 6	MR. SCOTT: Okay, and that's fine. I think there's a provision in the protective order that gives us some period of time to do that. We'll just deal with it then.	3 4 5 6	Supplement Programs.  Q Okay, and what were your duties in that position?  A I was the agency's lead in all things dietary supplements. Reported to upper management
4 5 6 7	MR. SCOTT: Okay, and that's fine. I think there's a provision in the protective order that gives us some period of time to do that. We'll just deal with it then. MR. WENIK: That's what I would	3 4 5 6 7	Supplement Programs.  Q Okay, and what were your duties in that position?  A I was the agency's lead in all things dietary supplements. Reported to upper management on regulatory, legal, budgetary aspects. Really
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2	organizational chart of the FDA in 2013.	2	would report to Steve Musser.
3	Have you seen this before, by the way?	3	Q And where would you be in the chain of
4	A Mm-hmm, yes.	4	command here? Were you like the number two person
5	Q Okay. So does this accurately reflect	5	under Mr. Spiller in the Office of Nutrition,
6	the organization of the FDA in 2013, as far as you	6	Labeling, and Dietary Supplements, or how would
7	can tell?	7	you characterize it?
8	A Yes.	8	A Each office has divisions under this
9	Q All right. I'm looking down at the	9	office, so I was one of the division directors
10	bottom right corner where it says "Office of	10	under the office.
11	Nutrition, Labeling, and Dietary Supplements."	11	Q I see. So you would be the division
12	Is that the branch or subdivision, if	12	director of dietary supplements?
13	you will, of the FDA that you were a part of?	13	A Correct.
14	A The office.	14	Q Corey Hilmas; is that somebody that's
15	Q Okay, and Philip Spiller, who is listed	15	familiar to you?
16	here, what was his role?	16	A Yes.
17	A Well, he was the acting director after	17	Q And was he with the FDA during your
18	Barbara Schneeman retired.	18	tenure there?
19	Q Did you report to Mr. Spiller?	19	A Yes.
20	A I did.	20	Q What was his position?
21	Q And who would he report to?	21	A He was originally a tox reviewer for the
22	A The center director, specifically	22	New Dietary Ingredient Notification Team, and then
23	well, they switched between the deputy directors,	23	he was the head of the regulations and
23 24	but largely the center directors. Sometimes we	24	implementation branch.
25		25	•
2.5	would report to Roberta Wagner, and sometimes we	2.3	1 7
	Page 32		Page 33
1	Daniel Fabricant, Ph.D.	1	Daniel Fabricant, Ph.D.
2	A He did. He also served as an expert for	2	position of dietary supplements at the FDA, was
3	the FDA.	3	one of your duties to take action against dietary
4	Q And Mr. Hilmas, did he join you at the	4	supplements that you felt posed a hazard?
5	NPA after you left the FDA?	5	A Yes. Well, to clarify, it's not that we
6	A Dr. Hilmas.	6	felt had a hazard; it was that we had evidence of
7	Q Dr. Hilmas, yes.	7	a violation of the Food, Drug and Cosmetic Act.
8	A Yes.	8	Q And would you prioritize those
9	Q Did you know him before your stint with	9	substances that you thought or that the FDA
10	the FDA?	10	believed posed a health hazard as opposed to some
11	A No.	11	other violation?
12	Q Jennifer Thomas; is that a name that's	12	MR. SCOTT: Object as to form.
13	familiar to you from the FDA?	13	THE WITNESS: We don't prioritize
14	A Yes.	14	based on feeling; we base it on the evidence
15	Q Who is she?	15	that we have.
		16	BY MR. WENIK:
16	A She worked in the Office of Compliance		
17	at my time at the FDA.	17	Q So if you had evidence that something
17 18	at my time at the FDA.  Q All right, and that would be two boxes	17 18	posed a health hazard, would that be a priority as
17 18 19	at my time at the FDA.  Q All right, and that would be two boxes over here on the left?	17 18 19	posed a health hazard, would that be a priority as opposed to some other violation of an FDA
17 18 19 20	at my time at the FDA.  Q All right, and that would be two boxes over here on the left?  A Yes.	17 18 19 20	posed a health hazard, would that be a priority as opposed to some other violation of an FDA regulation?
17 18 19 20 21	at my time at the FDA.  Q All right, and that would be two boxes over here on the left?  A Yes.  Q All right, and what was her role at the	17 18 19 20 21	posed a health hazard, would that be a priority as opposed to some other violation of an FDA regulation?  A With the Food, Drug & Cosmetic Act, any
17 18 19 20 21 22	at my time at the FDA.  Q All right, and that would be two boxes over here on the left?  A Yes.  Q All right, and what was her role at the FDA?	17 18 19 20 21 22	posed a health hazard, would that be a priority as opposed to some other violation of an FDA regulation?  A With the Food, Drug & Cosmetic Act, any violation intimates a health hazard. It's mens
17 18 19 20 21 22 23	at my time at the FDA.  Q All right, and that would be two boxes over here on the left?  A Yes.  Q All right, and what was her role at the FDA?  A She was the director of the Division of	17 18 19 20 21 22 23	posed a health hazard, would that be a priority as opposed to some other violation of an FDA regulation?  A With the Food, Drug & Cosmetic Act, any violation intimates a health hazard. It's mens rea, so you don't it doesn't necessarily if
17 18 19 20 21 22	at my time at the FDA.  Q All right, and that would be two boxes over here on the left?  A Yes.  Q All right, and what was her role at the FDA?	17 18 19 20 21 22	posed a health hazard, would that be a priority as opposed to some other violation of an FDA regulation?  A With the Food, Drug & Cosmetic Act, any violation intimates a health hazard. It's mens

Page 34 Page 35 1 Daniel Fabricant, Ph.D. 1 Daniel Fabricant, Ph.D. 2 2 Q Well, I guess let me put it this way: obligated to act, so I think -- you know, I 3 How would you prioritize when you were at FDA? 3 don't -- I'm not sure of your question, I Obviously, I can't expect you to testify to what's 4 4 guess. I don't understand what it is you're 5 happening today, but when you were at FDA in that 5 trying to get to. 6 2011 to 2014 block, how would you prioritize what 6 BY MR. WENIK: 7 violations to take action against? I assume there 7 Q Well, would you devote more resources to 8 are more violations that occurred than you had 8 certain violations than others? 9 resources to address; is that fair? 9 A It's on a case by case. You know, we 10 10 took it case by case. It really depends on --MR. SCOTT: Objection as to form. 11 Objection; compound. That's two questions. 11 there's a process and the preponderance of the 12 12 BY MR. WENIK: evidence, and we try to take it -- again, I think 13 Q Let me rephrase. That's a fair 13 in dispatching our duties we did that. We really 14 14 looked at a case-by-case scenario. Where a case objection. 15 15 required more resources, it was generally given Would it be fair to say that during your 16 tenure, your office became more violations of the 16 more resources. Where a case may not have 17 17 Food, Drug & Cosmetic Act than you had resources required more resources, it wasn't, but again it's 18 18 to address? always case by case. 19 19 MR. SCOTT: Object as to form. Q And would you devote more resources to a 20 THE WITNESS: We addressed anything 20 case that your branch, if you will, your division 21 that came up to us that we were knowledgeable 21 felt posed a greater health risk to the public 22 about. That was the role of my office. We 22 than others that posed less of a health risk? 23 were the expert office, so when a case came 23 MR. SCOTT: Object as to form. 24 THE WITNESS: Again, you're asking in, either from the districts or something 24 25 that we developed ourselves, we were 25 me to speculate. I'm not having -- we took Page 37 Page 36 1 Daniel Fabricant, Ph.D. 1 Daniel Fabricant, Ph.D. 2 2 it case by case. I stand on my track record duties, because he was retiring, diminished, and 3 3 he largely was focused on helping Dr. Hilmas that we acted appropriately in all of our 4 4 manage that position in that branch, and actions. 5 Dr. Hilmas really applied his vision to what that 5 BY MR. WENIK: 6 Q All right. 6 branch should be. 7 Are you familiar with an individual at 7 Q What was his area of expertise? 8 the FDA during your time period named Robert 8 A He had a degree in biochemistry. 9 9 Q Was he someone whose judgment you Moore? 10 10 A Dr. Moore, yes. trusted? 11 Q What is your recollection of what 11 A Bob, most of the time, yeah, he did a 12 Dr. Moore's position was at the FDA? 12 very good job most of the time. There was 13 always -- I mean you always have a review of 13 A Dr. Moore was the lead for the things, and one of the challenges when I arrived 14 regulations implementation team at the time, and 14 15 he was there for eight months with me, and then he 15 at the organization, and of no fault of Bob's, but 16 16 there wasn't a lot of -- there wasn't a robust retired. 17 17 Q And he reported to you? enforcement program or regulatory program in terms 18 18 of dietary supplements when I arrived, and so that 19 Q Was he someone that performed 19 was largely what I was hired for was to try to, 20 20 satisfactorily, in your view? you know, get all of the functions operating. 21 Q To increase the robustness of it, for 21 A Yes. 22 22 Q And what were his duties? lack of a better word? 23 A He managed largely the interactions with 23 A To set up systems that increased the the Office of Compliance, with the attorneys, and 24 24 robustness of it, yes, to make it to where all 25 with a lot of stakeholders when I arrived. His 25 parts of the law were being, you know, adequately

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1	Daniel Fabricant, Ph.D.	1	Daniel Fabricant, Ph.D.
2	taken care of.	2	BY MR. WENIK:
3	Q All right. Did you respect Dr. Moore's	3	Q And was he one of the people that you
4	scientific judgment?	4	may have reached out to?
5	MR. SCOTT: Object as to form.	5	A The whole division. I reached out to
6	THE WITNESS: Is there a specific	6	the whole division.
7	matter?	7	Q Okay. Let me talk a little bit more
8	BY MR. WENIK:	8	about your expertise.
9	Q Well, just generally, is he someone that	9	Have you ever designed a human clinical
10	you felt was competent and knowledgeable?	10	trial?
11	A In general, yes, and again, through no	11	A Yes.
12	fault of his own, there was a culture of somewhat	12	Q How often have you done that?
13	inactivity before my arrival, so we, you know,	13	A Probably, over the past two some years,
14	that was and he was retiring as well, so	14	probably about five or six trials.
15	sometimes I think that he may have factored into	15	Q And that's with the NPA?
16	some decision-making.	16	A At NPA we have some members who have
17	Q All right. Did you seek him out for	17	contract research organizations, and so we at
18	advice regarding DMAA?	18	times we'll advise them through either formal
19	MR. SCOTT: Object as to form.	19	committees or through meetings.
20	THE WITNESS: I sought out a lot of	20	Q Prior to the past two years you
21	people for advice on DMAA. I sought out the	21	described, have you ever done that before,
22	whole division for advice on really the NDI	22	designed a human clinical trial?
23	provision and setting up a system to be more	23	A No. Animal studies.
24 25	effective to the letter of the law.	24 25	Q Have you ever served as an investigator
25		25	in a human clinical trial?
	Page 40		Page 41
1	Daniel Fabricant, Ph.D.	1	Daniel Fabricant, Ph.D.
2	Daniel Fabricant, Ph.D.  A I've been in a bioequivalence trial back	2	Daniel Fabricant, Ph.D.  Q What subject areas are these journals?
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2	A Usually, yes.	2	Q That Bradford Hill criteria, is that
3	Q In your mind, is a case report	3	something you used or applied when you were at the
4	sufficient evidence to establish causation between	4	FDA?
5	a substance and a medical condition?	5	A No. Our officers used something called
6	A They can be, depending on the quality of	6	CIOMS by the World Health Organization.
7	the case report.	7	Q And what's your understanding of what
8	Q Just the case report alone?	8	CIOMS is?
9	A If it's a good enough case report and	9	A CIOMS is at least globally recognized as
10	there is underlying evidence, it could.	10	the best way to evaluate an adverse event report
11	Q And what sort of underlying evidence	11	or adverse event reports, and it gives a way to
12	would you look for?	12	score and rank those adverse event reports and
13	A Medical history, challenge, dechallenge.	13	assign if it's possible, probable, there's a
14	Dechallenge is when you give an agent and then you	14	temporal relationship, if it's incomplete, if more
15	take it away, and the symptoms recur. Those are	15	information is need, if it's unlikely, and there's
16	generally some large confounders, but it would	16	a lot that goes into evaluating those.
17	have to be on a case-by-case basis to establish	17	Q Would you prepare those, or other people
18	what would make that case report stronger versus	18	at FDA would prepare those for you, those
19	others, but those are some of the things you look	19	analyses?
20	for typically is the medical history is	20	MR. SCOTT: Object as to form.
21	incredibly important.	21	BY MR. WENIK:
22	Q Are you familiar with the Bradford Hill	22	Q Let me repeat the question.
23	criteria for causation?	23	Those CIOMS analyses that you described,
24	A Somewhat, but I'm not I need a	24	did you personally prepare those, or did others at
25	refresher.	25	FDA prepare those for you?
	Page 44		Page 45
1		1	Page 45 Daniel Fabricant, Ph.D.
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Page 46 Page 47 1 Daniel Fabricant, Ph.D. 1 Daniel Fabricant, Ph.D. 2 2 process is to help to remove the bias. Even Q And does the fact that a piece of 3 if there is, I mean I think that researchers 3 research that you're peer reviewing is funded by a 4 company, does that make it, in your view, 4 tend to like the area they're focused on, and 5 5 scientifically invalid or worthy of less respect so you can't inherently remove all bias, but 6 the point of peer review and why it's so 6 or worth? 7 important is to effectively have some 7 A It could. Again, it's case by case. It 8 scientific guardrails against bias clouding 8 depends on what gets presented. 9 Q And is it, in your mind, inappropriate 9 the actual results. 10 10 for the organization that's funding research to BY MR. WENIK: 11 Q When you're doing your peer review as a 11 comment on the research as it's being performed? 12 MR. SCOTT: Object as to form. 12 journal peer reviewer -- and you mentioned I believe you do it for a number of different 13 THE WITNESS: Again, it's case by 13 14 journals -- is one of the things that you're 14 case. In some instances that may be true. 15 looking at the funding of the research that's been 15 In other instances it may not be. It depends 16 16 submitted? on a lot of factors. 17 17 A It factors in, yeah. They have to BY MR. WENIK: 18 18 disclose that. Q When you were a peer reviewer, have you 19 seen where the sponsors of research have commented 19 Q And how does that factor into your 20 on the manuscript, edited the manuscript? 20 analysis or review of the research? A Well, it leads you to -- oftentimes in 21 21 A Yes. 22 peer review you'll look at other references that 22 Q Does that in and of itself detract from 23 the validity of the research in your mind? 23 are related, so it prompts you to look at either a body of work or a history of work or a focus of 24 A It has in some instances. In other 24 25 25 instances it hasn't. It depends again on -- it's work. Page 48 Page 49 1 Daniel Fabricant, Ph.D. 1 Daniel Fabricant, Ph.D. 2 case by case. 2 supplemental information that generally is 3 Q Is it inappropriate for the sponsor of 3 available, that usually satisfies most of the 4 research to have a role in which methodologies are 4 questions. However, you know, it's case by 5 employed in conducting the research? 5 case. MR. SCOTT: Object as to form. 6 6 BY MR. WENIK: 7 THE WITNESS: It can. It certainly 7 Q Would you consider it a breach of the can. Again, it's case by case. scientific method for a researcher to exclude from 8 8 9 BY MR. WENIK: 9 his or her manuscript only that data that 10 10 disagreed with his hypothesis? Q So some cases yes, some no? 11 MR. SCOTT: Object as to form. 11 A Yes. THE WITNESS: Again, I think it's 12 Q Now, when you're reviewing peer-reviewed 12 research that's submitted to you, do you expect 13 case by case. Depends on the study. I can 13 14 the researchers to submit to you all the data that 14 envision scenarios where you wouldn't 15 they found, including the data that does not agree 15 necessarily include everything, and I can 16 16 with their hypothesis? envision scenarios where you want to include 17 17 MR. SCOTT: Object as to form. everything. 18 THE WITNESS: Again, I think it 18 BY MR. WENIK: 19 depends on -- it's case by case. It depends 19 Q When you published peer-reviewed 20 on what they're reporting and what the study 20 articles, did you submit all the data of your is. If it's, you know, something that 21 findings to the peer reviews? 21 22 requires that level of specificity, most 22 A Sometimes yes, sometimes no. Sometimes 23 certainly, or there should be a way to access 23 it wasn't, at least in our opinion, essential and 24 supplemental files, which has been my 24 necessary for the publication. Q Did you ever engage in a process where 25 experience as a peer reviewer. So if there's 25

	Page 50		Page 51
1	Daniel Fabricant, Ph.D.	1	Daniel Fabricant, Ph.D.
2	you selectively excluded only information that	2	A Yes.
3	disagreed with your hypothesis?	3	Q Do you know an individual named Amy
4	A I'm not sure I understand the question.	4	Eichner?
5	Q You said that sometimes you would say	5	A I know of Amy, yes.
6	some information would not be essential; is that	6	Q Who is Amy Eichner?
7	right?	7	A She works for the U.S. Anti-Doping
8	A Yes.	8	Agency.
9	Q All right. Would you deem information	9	Q And what is your understanding of what
10	not being essential only that which disagreed with	10	her position is with that organization?
11	whatever hypothesis you had for your research?	11	A She's a research chemist.
12	A Again, it's case by case. It depends on	12	Q And during your tenure at the FDA,
13	what the hypothesis is. If the hypothesis is so	13	during that February of 2011 to April of 2014
14	broad, you may not need every piece of information	14	period, did you have interactions with
15	there. So again, it's case by case. It depends	15	Ms. Eichner?
16	on the scenario.	16	A We saw her at national meetings, and she
17	Q Would you consider it an act of	17	liked to send us emails.
18	scientific dishonesty to falsify the results you	18	Q And what would be generally the subject
19	published in a that one published in a	19	matters of her emails to FDA?
20	peer-reviewed paper?	20	A As many people do, they, you know,
21	A Yes.	21	people FDA I like to describe as a big slow
22	Q Would you consider it an act of	22	moving target that bleeds when you hit it, so
23	scientific dishonesty to present a PowerPoint	23	people tended to want to give FDA their opinions
24	presentation at a conference that contained	24	of what they thought FDA's priorities should be,
25	falsified information?	25	and Ms. Eichner engaged in that sometimes.
	Page 52		Page 53
1	Daniel Fabricant, Ph.D.	1	Daniel Fabricant, Ph.D.
2	Q Did she in particular send you emails	2	during your tenure?
3	about what her opinions were regarding DMAA?	3	MR. SCOTT: Object as to form.
4	A I believe she did.	4	THE WITNESS: No.
5	O What is the relationship if our	5	
	Q What is the relationship, if any,	-	BY MR. WENIK:
6	between the FDA and the U.S. Anti-Doping Agency?	6	Q Did you have teleconferences with
6 7	- · · · · · · · · · · · · · · · · · · ·		
	between the FDA and the U.S. Anti-Doping Agency?	6	Q Did you have teleconferences with
7	between the FDA and the U.S. Anti-Doping Agency?  A Other than we both get our funding from	6 7	Q Did you have teleconferences with Ms. Eichner during your tenure at the FDA?
7 8	between the FDA and the U.S. Anti-Doping Agency?  A Other than we both get our funding from Congress, none.  Q Did officials of the U.S. Anti-Doping Agency attend any policy meetings at the FDA?	6 7 8	<ul> <li>Q Did you have teleconferences with</li> <li>Ms. Eichner during your tenure at the FDA?</li> <li>A I spoke with her on the phone a number of times.</li> <li>Q Did you speak with her about DMAA?</li> </ul>
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7 8 9 10 11 12	between the FDA and the U.S. Anti-Doping Agency?  A Other than we both get our funding from Congress, none.  Q Did officials of the U.S. Anti-Doping Agency attend any policy meetings at the FDA?  MR. SCOTT: Object as to form.  THE WITNESS: Would you elaborate	6 7 8 9 10 11 12	<ul> <li>Q Did you have teleconferences with</li> <li>Ms. Eichner during your tenure at the FDA?</li> <li>A I spoke with her on the phone a number of times.</li> <li>Q Did you speak with her about DMAA?</li> <li>A Can you clarify a little bit?</li> <li>Q Did she speak to you about her concerns</li> </ul>
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7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	between the FDA and the U.S. Anti-Doping Agency?  A Other than we both get our funding from Congress, none.  Q Did officials of the U.S. Anti-Doping Agency attend any policy meetings at the FDA?  MR. SCOTT: Object as to form.  THE WITNESS: Would you elaborate on what you mean by "policy meetings"?  BY MR. WENIK:  Q Well, let me make it broad. Did they attend any meetings at the FDA, to your knowledge, U.S. Anti-Doping officials?  MR. SCOTT: You're talking about when he was there?  BY MR. WENIK:  Q Yes.  A I believe there was a public hearing on	6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	Q Did you have teleconferences with Ms. Eichner during your tenure at the FDA? A I spoke with her on the phone a number of times. Q Did you speak with her about DMAA? A Can you clarify a little bit? Q Did she speak to you about her concerns about DMAA? A Sure. Q And was one of her concerns that DMAA posed a health risk? A Mm-hmm, yes. Q And were you aware of public speeches that Ms. Eichner was making in 2011 and 2012 regarding the purported dangers of DMAA? A Yes. Q So I'd like to turn your attention to

Daniel Fabricant, Ph.D.  Is this an entity that you're familiar with?  A Yes.  O How are you familiar with this entity?  A There was money earmarked, technically — you can't call it earmarked anymore — by Senator Thad Cochran that earmore — by Senator Thad Thad Cochran that earmore — that this has been used in the protective order.  MR. WENIK: Well, if he's part of FDA.  MR. WENIK: Well, if he's part of FDA.  MR. WENIK: Well, if he's part of FDA.  MR. WENIK: Well, we have your objection — the formore — the status of these things.  MR. WENIK: I think the protective order permits us to use these things a deposition but just not be filed in public.  MR. WENIK: Well, we can have that James Harlow and (person) at that Jumersity of Mississippi jointly designation.  I that James Harlow and (per		Page 54		Page 55
s this an entity that you're familiar with?  A Yes. Q How are you familiar with this entity? A Yes. C How are you familiar with this entity? A Yes. C How are you familiar with this entity? A There was money carmarked, technically you can't call it earmarked anymore by Senator Thad Cochran that established that as a center of excellence for I FDA, and there was pass-through money given every year that FDA administered to the National Center I for Natural Products Research that I was in charge I of I was the program officer. Q Let me show you an email. Exhibit 3 was marked for identification.) I BY MR. WENIK: Q Q Let me show you an email. Exhibit 3, but before I even get to the email hishing than that I marked as Fabricant proportion in the I was an issue I chain, I should lay a couple of foundational questions for it. So we've been talking about I miss confidentially designation, the  Page 56  Daniel Fabricant, Ph.D. I Daniel Fabricant, Ph.D. I miolation of the protective order. MR. WENIK: Well, if he's part of FDA I at this point in time. He's a former more of the protective order. MR. SCOTT: He is not part of FDA I at this point in time. He's a former more of the protective order. MR. SCOTT: How understanding is that James Harlow and (person) at the University of Mississippi. Marks Hall was the designation and that this has bear date in this is an own of the status of the University of Mississippi. MR. WENIK: Well, we have the signation and that that hall are an issue MR. WENIK: Well, if he's part of FDA And this point in time. He's a former more of the protective order. MR. SCOTT: How understanding that that, no, we went through and looked at things as confidential. MR. SCOTT: By understanding was that, no, we went through and looked at things as confidential.  MR. WENIK: Well we are get to the email that, no, we went through and looked at things that were privileged, but the designations were from the University of Mississippi, to designations were from the University of Mississippi.  MR. WENIK: You	1		1	
3 with? 4 A Yes. 5 Q How are you familiar with this entity? 6 A There was money earmarked. 8 anymore - by Senator Thad Cochran that established that as a center of excellence for 9 FDA, and there was pass-through money given every 11 year that FDA administered to the National Center 12 for Natural Products Research that I was in charge 12 of Natural Products Research that I was in charge 13 of, I was the program officer. 13 of, I was the program officer. 14 Q Let me show you an email. 14 Q Let me show you an email. 15 G MR. WENIK: 15 Well, it's a violation 16 to use it. Dr. Fabricant is not under the protective order. 19 MR. SCOTT: Let me raise an issue 24 here. I don't think this is my document. 25 MR. WENIK: Well, it's a violation 1 at this point in time. He's a former 20 MR. SCOTT: Well, it's a violation 1 at this point in time. He's a former 21 at this point in time. He's a former 22 my document. That's my point. Not my 20 document. That's my point. Not my 20 document. That's my point. Not my 20 designation. I can double-check that, but 20 enught. All right. Fair 22 mR. SCOTT: I don't want to get myself in any touble. 25 mR. SCOTT: I have my objection. 15 mR. SCOTT: I think the protective order 25 mR. SCOTT: I have my objection. 15 mR. SCOTT: I think the protective order 26 mR. SCOTT: I there raise an issue 27 my document. 27 my document. 28 my document. 29 my document. 20 my document. 21 my document. 22 my document. 23 my document. 24 my document. 25 my document. 25 my document. 25 my document. 26 my document. 27 my document. 27 my document. 29 my doc		· · · · · · · · · · · · · · · · · · ·		
4 A Yes. 5 Q How are you familiar with this entity? 6 A There was money earmarked. 7 technically you can't call it earmarked anymore by Senator Thad Cochran that a such that I was no can't call it earmarked anymore by Senator Thad Cochran that a senter of excellence for year that I PDA administered to the National Center of Natural Products Research that I was in charge of I was the program officer. 14 Q Let me show you an email. 15 (Exhibit 3 was marked for identification.) 16 identification.) 17 identification. 17 identification. 18 identification.) 18 identification. 19 identifi				
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Page 58 Page 59 1 Daniel Fabricant, Ph.D. 1 Daniel Fabricant, Ph.D. 2 2 expert, and there are certain categories of a former employee, it's my reading that 3 people who can and cannot access. That's why 3 Dr. Fabricant would not be allowed to sign the protective order and be covered. I want to get the protective order, check on 4 4 5 5 the status of it, and then we'll go from Now, having said that, for this 6 there. Sorry to raise the issue, but I'm 6 document it's not an issue as I read it. 7 just not entirely comfortable with where we 7 because in section 3E, anyone who had access 8 are at the moment. 8 to the document prior to the litigation does 9 9 not have to be signed up under the protective (Whereupon, a short recess was 0 .0 order. So for this document you can question taken.) 1 MR. SCOTT: We took a break so I 11 the witness. 2 could check the status of our document that's 12 MR. WENIK: And similarly, I take 3 13 been marked as Exhibit 3. This is not a it --4 14 government-produced document. This was MR. SCOTT: If he's on them, yes. 5 15 produced by the University of Mississippi. If he's not on them, I suggest your office 6 Now, the University of Mississippi 16 call the University of Mississippi and work .7 made the designations of confidential. We 17 something out, because I'm hesitant to have did not, and we did not have any input in 18 him talk about documents that he should not 8 19 9 that. That was solely theirs. have official access to under the protective 20 What we have done in coordination 20 with them is review materials that they were 21 21 MR. WENIK: I hear you. I think 22 producing to ensure they didn't turn over 22 everything I have is something you've anything that was privileged based on the 2.3 23 already -- that your name is on it in some retention of Dr. Khan as an expert with us. 24 24 fashion. Now, under the protective order, as 25 25 MR. SCOTT: If that's the case, Page 60 Page 61 1 Daniel Fabricant, Ph.D. 1 Daniel Fabricant, Ph.D. 2 then you're good. 2 questions, now I can turn my attention to 3 Fabricant Exhibit 3, which is an email chain 3 BY MR. WENIK: 4 Q Okay. I'm glad we resolved that. So 4 between Dr. Khan and yourself. let me ask you a couple of foundational questions 5 First of all, have you looked at this? 5 before I ask you to hook at that, Doctor. Does this refresh your recollection of having had 6 6 7 7 So first of all, a gentleman by the name some email communications with Dr. Khan? of Mahmoud ElSohly, is that somebody that you're 8 8 MR. SCOTT: Be sure you read the 9 acquainted with? 9 whole thing to understand the context. 10 A Yes. 10 THE WITNESS: Yes. 11 BY MR. WENIK: 11 Q Is it your understanding that 12 Dr. ElSohly is affiliated in one way, shape or 12 Q And you mentioned before that there were form with the National Center for Natural Products 13 13 some federal government monies that would be administered, for lack of a better word, by the 14 14 Research? 15 15 FDA for the National Center for Natural Products A I was aware he was at the University of 16 16 Mississippi. Research. 17 17 Q And Ikhlas Khan, is Dr. Khan someone Is that some of what's being referred to 18 that you're acquainted with? 18 in the email chain here in Fabricant Exhibit 3? 19 A Yes. 19 A Yes. We were on a continuing resolution 20 20 Q And is it your understanding that in 2012. The University of Mississippi was not on 21 a continuing resolution and needed our budget 21 Dr. Khan is affiliated with the National Center numbers, as the two fiscal cycles didn't always 22 for Natural Products Research at the University of 22 23 Mississippi? 23 coincide. So that's what this email refers to. 24 Q And they had to fill out some sort of --24 A Yes. I don't know -- grant proposal or other paperwork 25 Q Okay. Now that I've asked those 25

	Page 62		Page 63
1	Daniel Fabricant, Ph.D.	1	Daniel Fabricant, Ph.D.
2	to get their funding through you; is that right?	2	Q I see. Okay.
3	A There was a renewal process for the	3	Have you heard of an entity known as
4	center.	4	ElSohly Laboratories, Inc.?
5	Q Okay. So let me ask you just to	5	A Yes.
6	interpret some of these things for me. I'm	6	Q What is your understanding of what that
7	looking in the middle of it. You wrote to	7	entity is?
8	Dr. Khan, "yes, 300 from Diego plus 400 from us	8	A That it's a I guess there's a
9	plus 1.6 as the base."	9	partnership with the university and Dr. ElSohly to
10	So this 1.6, would that be \$1.6 million?	10	conduct some, I guess, you know, to be
11	A Yes.	11	
12		12	semi-entrepreneurial, research-wise.
	Q So the \$1.6 million as the base, is that		Q Did the FDA have any contractual
13	part of this FDA federal funding?	13	relationships with ElSohly Laboratories, Inc.?
14	A Yes.	14	A No.
15	Q And 400, would that refer to \$400,000?	15	Q Do you know whether Dr. Khan had an
16	A Yes, in supplemental money.	16	ownership stake in ElSohly Laboratories?
17	Q From the government, okay, and what is	17	A I don't know his I don't know the
18	the 300 from Diego? What would that be referring	18	financial arrangements.
19	to?	19	Q Are you familiar with another entity
20	A Diego was the program officer at the	20	known as Phytochemical Services, Inc., or PSI?
21	Office of Cosmetics and Colors for University of	21	A No.
22	Mississippi, so I was the program officer for the	22	Q And how about an entity known as
23	whole center, so they had some additional work	23	ChromaDex; is that an entity that you're familiar
24	that they had money set aside for at the	24	with?
25	University of Mississippi for research work.	25	A Yes.
	Page 64		D C 5
	rage or		Page 65
1	Daniel Fabricant, Ph.D.	1	Daniel Fabricant, Ph.D.
1 2			
	Daniel Fabricant, Ph.D.	1	Daniel Fabricant, Ph.D.
2	Daniel Fabricant, Ph.D.  Q How are you familiar with ChromaDex?	1 2	Daniel Fabricant, Ph.D. believe there was some technology-sharing between
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1	Daniel Fabricant, Ph.D.	1	Daniel Fabricant, Ph.D.
2	Q When you were at the FDA, is he somebody	2	trust?
3	whose advice you sought out?	3	A Yes.
4	MR. SCOTT: Object as to form.	4	Q Did you seek his advice when you were at
5	THE WITNESS: Amongst others, yes,	5	the FDA?
6	scientifically.	6	MR. SCOTT: Object as to form.
7	BY MR. WENIK:	7	THE WITNESS: I spoke with a lot of
8	Q Would you feel he's a person of some	8	scientists, yes.
9	integrity?	9	BY MR. WENIK:
10	A Yes.	10	Q All right. So let me ask you just
11	Q Let me ask you about Dr. ElSohly. What	11	generally: Would it be fair to say that you
12	is your understanding of his area of expertise?	12	believe that DMAA poses a serious health risk?
13	A Dr. ElSohly is a very well-respected	13	MR. SCOTT: Object as to form.
14	chemist, is one of the world leaders in banned	14	THE WITNESS: Again, I think the
15	substance testing of marijuana, cannabinoid	15	evidence shows that DMAA is in violation of
16	ingredients, amongst other natural products, and	16	federal law, and given that DMAA behaves like
17	is very adept at natural products research and has	17	an amphetamine, as it was previously under
18	been for some time. Still holds a faculty	18	you know, as it was previously under an NDA
19	position at the University of Mississippi and is	19	to be sold as a drug, I'm unfamiliar with any
20	very well-respected.	20	drug that doesn't have side effects.
21	Q Is he a clinician?	21	BY MR. WENIK:
22	A No.	22	Q But my question is: Putting aside the
23	Q Is his training as a chemist?	23	legality I understand your regulatory
24	A Primarily, yes.	24	expertise. Do you feel as a scientist that this
25	Q And is he someone whose judgment you	25	is something that poses a danger?
	Page 68		Page 69
1	Daniel Fabricant, Ph.D.	1	Daniel Fabricant, Ph.D.
2	MR. SCOTT: Same objection.	2	duties if there were things that were violative
3	THE WITNESS: I think putting drugs	3	that the agency wasn't taking appropriate action
4	in the food supply is a danger.	4	on.
5			on.
	BY MR. WENIK:	5	Q So I take it your answer is yes, that
6	Q Okay. Is it your view that DMAA should	5 6	Q So I take it your answer is yes, that this was something you wanted removed from the
6 7		1	Q So I take it your answer is yes, that
7 8	Q Okay. Is it your view that DMAA should be removed from the marketplace?  MR. SCOTT: Same objection.	1	Q So I take it your answer is yes, that this was something you wanted removed from the marketplace; you felt it violated the law, right?  A What I said I didn't say it felt
7 8 9	Q Okay. Is it your view that DMAA should be removed from the marketplace?  MR. SCOTT: Same objection.  THE WITNESS: DMAA, based on the	6 7 8 9	Q So I take it your answer is yes, that this was something you wanted removed from the marketplace; you felt it violated the law, right?  A What I said I didn't say it felt anything. I said it violated the law, and so we
7 8 9 10	Q Okay. Is it your view that DMAA should be removed from the marketplace?  MR. SCOTT: Same objection.  THE WITNESS: DMAA, based on the letter of the law, based on the fact that it	6 7 8 9	Q So I take it your answer is yes, that this was something you wanted removed from the marketplace; you felt it violated the law, right?  A What I said I didn't say it felt anything. I said it violated the law, and so we took appropriate action. There's a process for
7 8 9 10 11	Q Okay. Is it your view that DMAA should be removed from the marketplace?  MR. SCOTT: Same objection.  THE WITNESS: DMAA, based on the letter of the law, based on the fact that it is a drug, shouldn't be available as a food.	6 7 8 9 10 11	Q So I take it your answer is yes, that this was something you wanted removed from the marketplace; you felt it violated the law, right?  A What I said I didn't say it felt anything. I said it violated the law, and so we took appropriate action. There's a process for that. We followed the process.
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1	Daniel Fabricant, Ph.D.	1	Daniel Fabricant, Ph.D.
2	questions regarding DMAA.	2	the next big thing post-ephedra. Patrick Arnold
3	(Exhibit 4 was marked for	3	of BALCO fame played a role."
4	identification.)	4	Do you see that?
5	BY MR. WENIK:	5	A Yes.
6	Q Let me show you this document. I've	6	Q What role, if any, do you think
7	placed before you a document that I've marked for	7	Mr. Arnold played in DMAA being out there for
8	identification as Fabricant Exhibit 4, which is an	8	sale?
9	email chain and an attached brief news story. If	9	A To our knowledge, when I was at the
10	you could take a moment to look through that, I	10	agency, there were some blogs where he discussed
11	want to ask you a quick question.	11	it, going back to 2007, 2006, that mentioned DMAA
12	MR. SCOTT: Be sure to review it so	12	and how it was, you know, the latest and greatest
13	you understand the context.	13	thing.
14	(Witness peruses document.)	14	Q And what did you mean in this email by
15	THE WITNESS: Yes.	15	"the next big thing post-ephedra"?
16	BY MR. WENIK:	16	A That was I believe from one of my
17	Q All right. So from time to time when	17	people looked at those blogs, and those were the
18	you were at the FDA, did you have contact with	18	words of Mr. Arnold.
19	journalists?	19	Q Okay. Was it your understanding at this
20	A Yes.	20	time that DMAA was being well, withdraw it.
21	Q And would one of those journalists be	21	(Exhibit 5 was marked for
22	somebody who worked for a Tribune company?	22	identification.)
23		23	(Exhibit 6 was marked for
24	TI	24	identification.)
25	July of 2012, "On DMAA, people were looking for	25	
	D TO		
	Page 72		Page 73
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2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	Daniel Fabricant, Ph.D. BY MR. WENIK:  Q Doctor, I've placed before you two documents that I've marked for identification as Fabricant Exhibit 5 and Fabricant Exhibit 6. Fabricant Exhibit 5 is a copy of  MR. SCOTT: Jack, this one has got highlighting on it.  MR. WENIK: That's all right.  MR. SCOTT: Okay. BY MR. WENIK:  Q Fabricant Exhibit 5 is a copy of an April 24, 2012 warning letter to USPlabs, and Fabricant Exhibit 6 is a copy of an April 18, 2013 letter to USPlabs.  So my first question to you is: Just looking at Fabricant Exhibit 5 for a moment, have you seen that document before, this warning letter?  A Yes.  Q All right, and were you involved in the preparation of this warning letter?  A Yes.	2 3 4 5 6 7 8 9 10 11 12 13 14 14 15 16 17 18 19 20 21 22	Daniel Fabricant, Ph.D.  A We wrote the expert memo and obviously discussed with the Office of Compliance and the Office of Chief Counsel aspects of the letter and the memo.  Q And was this something that you approved of its dissemination, this letter?  A Yes.  Q Okay, and then this letter here, the one I marked as Fabricant Exhibit 6, which is a letter dated April 18, 2013, my questions were well, first of all, have you seen this letter before?  A Yes.  Q And were you involved in the drafting of this letter in any way, shape or form?  A Yes.  Q And how were you involved in this letter?  A Similar. We prepared the expert memo underneath it and worked with there's a process at FDA to work with the Office of Chief Counsel and Office of Compliance to ensure that things are

Page 74 Page 75 1 Daniel Fabricant, Ph.D. 1 Daniel Fabricant, Ph.D. 2 2 to USPlabs, it says that "We acknowledge receipt (Witness peruses document.) 3 of your letters dated May 15 and 17, 2012, 3 THE WITNESS: Okay. 4 September 28, 2012, and January 14, 2013, which BY MR. WENIK: 4 5 respond to the April 24, 2012 FDA warning letter 5 Q All right. So I'm looking at page 4 of 6 issued to your firm." 6 this document, and there's a bold question. It 7 Do you see that? 7 says, "Didn't you lobby for industry to weaken 8 A Yes. 8 these authorities in your previous position?" And 9 9 it says, "When I ran the Natural Products Q And my question to you is: So the 10 letters that USPlabs, that are referred to here 10 Association, the big part of my job was to push 11 that responded to Fabricant Exhibit 5, at some 11 our members for greater compliance with the laws, 12 12 point when you were at the FDA, did you see those because consumers deserve safe products." So my question is: Having looked at 13 letters, the USPlabs response? 13 14 A I saw their responses, yes. 14 that excerpt and looked at this document, is this 15 15 something that you've seen before? Q Okay. 16 16 A I believe I have. It was developed I (Exhibit 7 was marked for 17 17 identification.) believe by our press office at FDA. 18 18 Q Did you have a role in helping to create BY MR. WENIK: 19 19 Q Doctor, I've placed before you a this document? 20 document that I've marked for identification as 20 A Yes, somewhat, but it was still by our Fabricant Exhibit 7, which is five pages. I'll 21 press folks to be responsive to incoming 21 22 describe it -- for lack of a better term, it looks 22 inquiries. 23 like talking points. If you could take a moment 23 Q And did you review the talking points 24 to take a look at this. Then I'm going to ask you 24 from the press office? 25 a couple of questions. 25 A I don't know if this is the final Page 76 Page 77 1 Daniel Fabricant, Ph.D. 1 Daniel Fabricant, Ph.D. 2 version or not. I mean I'm sure I reviewed it, 2 Again, not knowing if this is the final or not, I 3 but again not knowing if this is the final or not, 3 don't know that this bullet would have necessarily 4 obviously I wouldn't -- you know, what's here 4 stayed in a final version. It wasn't generally 5 versus what may be in the final may be different 5 our policy to discuss what was happening behind 6 with my changes. 6 the scenes, you know, for a variety of reasons. 7 Q Okay. Fair enough. 7 So if you want me to speculate and say it's So I'm looking at the first page of the 8 8 referring to this one, sure, but we got --9 document, and it says, "One company [USPlabs] 9 Q I guess my real point is -- would it be 10 submitted a response to our warning letter, 10 fair to say that this document, the bullet points, 11 including studies purporting to show that DMAA is 11 were prepared at some point in time prior to 12 a dietary ingredient. However, FDA's review found 12 April 18, 2013, prior to when the response went 13 13 this information insufficient. FDA is finalizing out? 14 a formal response to the company regarding the 14 A Just because they were prepared, again I 15 additional information its lawyers submitted 15 don't know if this is -- I don't think this is the 16 16 following the FDA's warning letter." final version, so just because somebody wrote 17 Do you see that? 17 something down on a piece of paper doesn't mean 18 A Mm-hmm, yes. 18 they were, you know, it was the -- again, this is, 19 Q So would it be fair to say that the 19 this looks like a draft, if anything. 20 talking points are referring, when it says "FDA is 20 Q All right, but you would agree with me, finalizing a formal response," that they're 21 21 whether it's a draft or not, it was prepared 22 22 referring to what ultimately became Fabricant before this letter? 23 Exhibit 6, this April 18, 2013 letter, that that 23 MR. SCOTT: Object as to form. was the formal response to USPlabs' letters? THE WITNESS: Again, not, not 24 24 25 A It may have been earlier in the process. 25 having the dates. It could have been.

Page 78 Page 79 1 Daniel Fabricant, Ph.D. 1 Daniel Fabricant, Ph.D. 2 2 cardiovascular problems ranging from shortening of BY MR. WENIK: 3 Q Okay. Let me ask you to take a look at 3 breath and tightening in the chest to heart 4 page 2 of the Fabricant Exhibit 7, and I'm looking 4 attack." 5 at the third bullet point down from the top, and 5 That last phrase, is that something, 6 it says, "DMAA has known pharmacological effects 6 based on what you've seen, that you believe is on the human body -- it can narrow blood vessels 7 7 8 and arteries." 8 A Well, again, that's the pharmacology of 9 So let's take that first statement. Is 9 what was submitted for Forthane. If you have an 10 10 elevated blood pressure, that, of course, can lead that something that, based on the information that 11 you've seen that you believe is true, that DMAA 11 to any of those. You know, that's what it says 12 12 can narrow blood vessels and arteries? right here. If you elevate blood pressure, that 13 13 can lead to cardiovascular problems, ranging from A That's the information based on 14 14 shortening of breath, tightening of the chest, to Forthane's NDA when Forthane was used as a drug. 15 Q So that would be the factual basis for 15 a heart attack. That's not a secret. 16 16 Q Are you aware of any clinical studies that statement, the Forthane NDA? 117 17 A Yeah, I mean that's a known showing DMAA causing heart attack? 18 pharmacological effect on the human body. 18 A We generally don't do clinical studies Q Okay, and then it says "which can 19 on people, since World War II, to show that 19 elevate blood pressure." Is that something, is 20 something kills them. There are a lot of really 20 21 that statement something that, based on what 21 good laws against that. 22 you've read, you believe is true? 22 Q Are you aware of any epidemiological studies showing that DMAA causes heart attack? 23 A If it narrows blood vessels and 23 24 arteries, that elevates blood pressure. A I think there's a variety of case 24 25 Q And then it says "can lead to 25 reports, but I'm not speaking to the case reports Page 80 Page 81 1 Daniel Fabricant, Ph.D. 1 Daniel Fabricant, Ph.D. 2 2 that are out there on DMAA's safety for this A The law doesn't give FDA pre-market 3 3 approval. It's a notification system. particular . . . 4 Q So the basis for saying that it could 4 Q And then you wrote, "In most cases, lead to heart attack would be the case reports and 5 companies do not even have to tell us about a 5 6 6 product prior to selling it. The law only the NDA materials for Forthane? 7 A Well, the NDA materials, that was by the 7 requires companies to notify FDA when they intend to market a dietary supplement containing a New 8 people who made Forthane. That was one of their 8 9 side effects, so yes. 9 Dietary Ingredient (NDI) in the United States, if 10 Q Let me direct you to the last three 10 the NDI has not been used in the food supply in 11 11 bullet points on page 2. the same chemical form." 12 So I'm looking at the third one from the 12 Do you agree with that statement? bottom. It says, "The law does NOT give FDA 13 MR. SCOTT: Same objection. 13 14 pre-market approval to determine whether or not 14 THE WITNESS: As it pertains to dietary supplements are safe or effective prior to 15 15 NDIs, yes. 16 16 marketing, unlike the laws for marketing drugs." BY MR. WENIK: 17 17 Is that something you agree with? Q "An NDI is a dietary ingredient that was 18 MR. SCOTT: Object as to form. 18 not marketed in a dietary supplement prior to 19 Calls for a legal conclusion. 19 October 15, 1994." 20 MR. WENIK: He did say he was a 20 Do you agree with that? 21 regulatory expert. 21 A Yes. 22 22 MR. SCOTT: I didn't direct him not Q Then the second bullet from the bottom 23 23 there, it say, "Under current law, manufacturers to answer. 24 of dietary supplements are not required to prove 24 BY MR. WENIK: 25 Q Go ahead. 25 the safety and efficacy of their products to FDA

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1	Daniel Fabricant, Ph.D.	1	Daniel Fabricant, Ph.D.
2	prior to marketing."	2	However, that's specific to things that are
3	Is that a statement you agree with?	3	dietary ingredients. They would have to be a
4	MR. SCOTT: Same objection.	4	dietary ingredient for the FDA to ban it. If it's
5	THE WITNESS: Yes.	5	not a dietary ingredient, well, then it doesn't
6	BY MR. WENIK:	6	belong in the food supply to begin with.
7	Q And the last bullet there says, "To ban	7	Q Was it your belief, during your tenure
8	a dietary supplement, FDA must clearly demonstrate	8	at the FDA, that the FDA needed enhanced
9	that the product is adulterated (e.g., because it	9	regulatory tools to conduct its mission regarding
10	contains an unsafe food additive or presents a	10	dietary supplements?
11	'significant or unreasonable risk' when used as	11	A I didn't have an opinion. I was there
12	directed the label)."	12	to execute the authorities I did have.
13	Is that a statement you agree with?	13	Q What is your opinion today as you sit
14	MR. SCOTT: Object as to form.	14	here, part of the Natural Products Association?
15	THE WITNESS: Yeah, and these are	15	Do you think the FDA needs additional regulatory
16	talking points that were created by someone	16	tools to deal with dietary supplements?
17	in the press office. I would have, I would	17	A By and large, I think the laws are
18	have worded things slightly different. I	18	there, and they can certainly be used
19	think they kind of have the concept down.	19	appropriately.
20	BY MR. WENIK:	20	Q Was it your position when you were in
21	Q And it says, "This process can take	21	the FDA that geraniums were not in the food supply
22	years."	22	prior to October 15, 1994?
23	Do you agree with that, that it could	23	A I have
24	take years to formally ban an ingredient?	24	MR. SCOTT: Let me object as to
25	A That's from the agency's experience.	25	form.
	Page 84		Page 85
1	Daniel Fabricant, Ph.D.	1	Daniel Fabricant, Ph.D.
2	To the extent that you can answer	2	A Yes.
3	the question based on public positions that	3	Q And in the wake of that serviceman's
4	have been taken by FDA, please do so, but if	4	death, were there news accounts about that
5	there are any if you have any information	5	incident?
6	that's based on internal discussions that	6	A Yes.
7	were not made public, then I direct you not	7	Q And did you feel pressure from news
8	to answer on that basis, based on the	8	media accounts to take some action regarding DMAA
9	deliberative process privilege.	9	in the wake of those news reports regarding the
10	THE WITNESS: Based on our	10	death of this serviceman?
11	findings we obviously researched that	11	A I think that's two questions.
12	question. In terms of for a dietary	12	Q All right. Did you feel pressure from
13	supplement, geraniums did not appear to be on	13	the media to take action against DMAA?
14	any of the grandfather lists in terms of	14	MR. SCOTT: Object as to form.
15 16	being sold as a dietary supplement. Rose	15	THE WITNESS: Yeah, that still
16	geranium oil we were familiar with as a food	16 17	seems like two questions. BY MR. WENIK:
1 7		ш/	DI MK. WENIK.
17 1Ω	additive, which was pre-'94.	1	O Vou ware aware of the name reports
18	BY MR. WENIK:	18	Q You were aware of the news reports
18 19	BY MR. WENIK:  Q All right. So just looking at this	18 19	regarding the serviceman's death; is that right?
18 19 20	BY MR. WENIK:  Q All right. So just looking at this document as a reference point, for lack of a	18 19 20	regarding the serviceman's death; is that right?  A Yes.
18 19 20 21	BY MR. WENIK:  Q All right. So just looking at this document as a reference point, for lack of a better word, Fabricant Exhibit 5, prior to	18 19 20 21	regarding the serviceman's death; is that right?  A Yes.  Q Did those news reports in part encourage
18 19 20 21 22	BY MR. WENIK:  Q All right. So just looking at this document as a reference point, for lack of a better word, Fabricant Exhibit 5, prior to April 24, 2012, prior to the issuance of that	18 19 20 21 22	regarding the serviceman's death; is that right?  A Yes.  Q Did those news reports in part encourage you to take action against DMAA?
18 19 20 21 22 23	BY MR. WENIK:  Q All right. So just looking at this document as a reference point, for lack of a better word, Fabricant Exhibit 5, prior to April 24, 2012, prior to the issuance of that warning letter, were you made aware of the death	18 19 20 21 22 23	regarding the serviceman's death; is that right?  A Yes.  Q Did those news reports in part encourage you to take action against DMAA?  A No.
18 19 20 21 22	BY MR. WENIK:  Q All right. So just looking at this document as a reference point, for lack of a better word, Fabricant Exhibit 5, prior to April 24, 2012, prior to the issuance of that	18 19 20 21 22	regarding the serviceman's death; is that right?  A Yes.  Q Did those news reports in part encourage you to take action against DMAA?

	Page 86		Page 87
1	Daniel Fabricant, Ph.D.	1	Daniel Fabricant, Ph.D.
2	A Outside of FDA?	2	DMAA?
3	Q Yes.	3	A That was his opinion. A lot of people
4	A No.	4	had opinions on DMAA.
5	Q Were you receiving industry exhortations	5	Q Is it your opinion that he's a reputable
6	to take action against DMAA?	6	scientist?
7	MR. SCOTT: Object as to form.	7	A Sometimes.
8	THE WITNESS: Sure. However, the	8	Q I have to probe on that. At what times
9	fact remains. It was our burden to build a	9	would you believe that Dr. Cohen is not a
10	case, and we had a system, we worked the	10	reputable scientist?
11	system, and this was you know, we had a	11	A Look, he has an opinion. He feels he
12	variety of NDIs that we took action against.	12	can be an advocate for public health by getting
13	BY MR. WENIK:	13	his opinion out. I don't always agree with that.
14	Q Are you familiar with a Harvard	14	However, he is, you know, reputable in terms of
15	researcher named Pieter Cohen?	15	the actual science he does is very reputable.
16	A Yes.	16	Q Did his writings or opinions influence
17	Q What is your familiarity with Dr. Cohen?	17	the actions you took regarding DMAA?
18	A Dr. Cohen was a friend of the former	18	A No. We have a process at the agency.
19	deputy commissioner, Joshua Sharfstein, while I	19	We worked the process.
20	was at FDA, and I met Dr. Cohen through	20	Q Let me ask a couple more questions, and
21	Dr. Sharfstein.	21	then we'll take a break.
22	Q Did you have conversations with	22	So take a look at Fabricant Exhibit 5
23	Dr. Cohen about DMAA?	23	for a moment, if you don't mind, and look at the
24	A I did.	24	second page, and I'm looking at the first
25	Q Did he urge you to take action against	25	paragraph from the top there. It says, "To the
	Page 88		Page 89
			S
1	Daniel Fabricant, Ph.D.	1	Daniel Fabricant, Ph.D.
1 2	best of FDA's knowledge, there is no information		
		1	Daniel Fabricant, Ph.D.
2	best of FDA's knowledge, there is no information	1 2	Daniel Fabricant, Ph.D. searching geraniums, or both?
2	best of FDA's knowledge, there is no information demonstrating that dimethylamylamine" which we call it "DMAA," correct A Yes.	1 2 3	Daniel Fabricant, Ph.D. searching geraniums, or both? A We searched as DMAA, we searched as the
2 3 4	best of FDA's knowledge, there is no information demonstrating that dimethylamylamine" which we call it "DMAA," correct  A Yes.  Q "was lawfully marketed as a dietary	1 2 3 4	Daniel Fabricant, Ph.D. searching geraniums, or both?  A We searched as DMAA, we searched as the other names of DMAA that were being used. And specific to the law, DMAA was the article in the diet, not geraniums, or at least that's what
2 3 4 5	best of FDA's knowledge, there is no information demonstrating that dimethylamylamine" which we call it "DMAA," correct A Yes. Q "was lawfully marketed as a dietary ingredient in the United States before October 15,	1 2 3 4 5	Daniel Fabricant, Ph.D. searching geraniums, or both?  A We searched as DMAA, we searched as the other names of DMAA that were being used. And specific to the law, DMAA was the article in the diet, not geraniums, or at least that's what USPlabs was supposing.
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2 3 4 5 6 7 8	best of FDA's knowledge, there is no information demonstrating that dimethylamylamine" which we call it "DMAA," correct  A Yes.  Q "was lawfully marketed as a dietary ingredient in the United States before October 15, 1994, nor is there information demonstrating that this ingredient has been present in the food supply as an article used for food in a form in	1 2 3 4 5 6 7 8	Daniel Fabricant, Ph.D. searching geraniums, or both?  A We searched as DMAA, we searched as the other names of DMAA that were being used. And specific to the law, DMAA was the article in the diet, not geraniums, or at least that's what USPlabs was supposing.  MR. WENIK: All right. Why don't
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Page 90 Page 91 1 Daniel Fabricant, Ph.D. 1 Daniel Fabricant, Ph.D. 2 2 references we had on the initial, for the initial which is a university in Denmark is my 3 understanding of what DTU is. 3 warning letter. This was one of them, so . . . My simple question to you is: Is this 4 Q Okay. Was it the practice when you were 4 5 something that you've seen before? at the FDA that you would look at information from 5 6 A I believe I have. 6 abroad in making decisions? 7 7 A We'd look at -- again, we'd search a Q And did you have this information at the FDA at the time that Fabricant Exhibit 5 was 8 8 variety of scientific information. You know, you prepared, that kind of warning? Was this one of 9 can never get the whole universe, but we tried to 9 10 the things that went into the basis for that 10 get as much of it as we could. Yeah, if there 11 letter? 11 were papers, foreign papers, they certainly would 12 -- we'd look at them. 12 MR. SCOTT: Well, let me object and 13 ask for clarification. Are you talking about 13 Q Okay, and how much weight would you give 14 the Li document? The translation is dated 14 to information from a foreign entity? 15 15 MR. SCOTT: Object as to form. August of 2016. 16 16 THE WITNESS: As with any BY MR. WENIK: 117 reference, it's case by case. It depends on 17 Q Right. I assume you didn't have this the quality of the work done. It depends on, 18 particular translation, but my question is: Did 18 you have some version of this, I guess is the 19 you know, the scientific rigor there. It 19 20 depends on a variety of things. Is it 20 better question, when you put out this warning 21 peer-reviewed? Is it -- you know, what is 21 letter? 22 22 A I would have to see our memo, but I it? 23 23 think -- again, I'd have to see the memo to (Exhibit 9 was marked for refresh for certain that we had -- again, I'd have 24 24 identification.) 25 to see the memo for certain. It's all the 25 Page 92 Page 93 1 Daniel Fabricant, Ph.D. 1 Daniel Fabricant, Ph.D. 2 2 BY MR. WENIK: University of Uniformed Health Services. Q Doctor, I've placed before you a 3 3 Q All right, and what is the relationship, if any, between the FDA and this university? 4 document that I marked for identification as 4 Fabricant Exhibit 9, and I'd ask you to take a 5 A Formally? We had a -- as we have the, 5 6 moment or two to take a look at it. It's an email 6 uh, the Public Health Service, so there's a formal 7 chain from May 11, 2011. 7 MOU, memorandum of understanding that, where 8 8 appropriate, some information can be shared, but A Okav. 9 Q Have you seen this email chain before? 9 it has to go through -- there was a program 0 A Looks like I was copied on it. 10 officer for that at White Oak. Q All right. Do you know Philip Gregory? 11 Q All right, and this particular email .1 A I've met Philip before, yes. 2 12 talks about there being a report in the literature Q Who is Philip Gregory? 13 of a "positive urine drug screen for amphetamine 13 14 and related substances in a patient taking this 4 A He is the editor or creator of Natural Medicines Database. 15 ingredient. DMAA has structural similarities to 5 16 amphetamine," and then there's a citation to an 16 Q And what is your understanding of what 17 article called "Dimethylamylamine: A Drug Causing L 7 the Natural Medicines Database is? 18 Positive Immunoassay Results for Amphetamines." 18 A It's kind of an electronic newsletter. L 9 19 Then there's a citation for a journal. It goes to health practitioners on dietary 20 20 supplements. Do you see that? 21 2.1 Q All right, and Patricia Deuster, are you A Yes. 22 22 familiar with this individual? Q That citation, that article, was that 23 23 something that you recall was looked at prior to 24 the issuance of this warning letter that we have 24 O Who is Patricia Deuster? 25 A She was a professor at UUHS, the 25 as Fabricant Exhibit 5?

Daniel Fabricant, Ph.D. A It may have been. Again I'll have to see the memo and see everything that was cited there. We always list what we cite. Q And what's the significance in your mind of there heing a positive screen for amphetamine perhaps caused by DMAA? What significance does that have for you? A Well, it would be, you know, for war fighters for police officers or people like that, firefighters, you know, at alose drug test that sy ook know, that would be it, that if they got a drug test for this, for using amphetamines the extent of it. Q Does that in and of isself raise any averact to an immunoassay for amphetamines, the would be in that it may react to an immunoassay for amphetamines, the work of this may react to an immunoassay for amphetamines, the work of this for using amphetamines the extent of it. C Does that it may be a control of the control of		Page 94		Page 95	
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	Page 98		Page 99
1	Daniel Fabricant, Ph.D.	1	Daniel Fabricant, Ph.D.
2	who that is?	2	Mr. Kababick's training, if any?
3	A Yes.	3	A He, you know, is a chemist is my
4	Q Who is James Neal-Kababick?	4	understanding of his training.
5	A He runs a lab called Flora Research.	5	Q Is he someone whose views you respect?
6	Q And what does Flora Research do?	6	A I mean his lab has been around a while,
7	A They do a variety of testing in the	7	so I think, you know, he certainly has, seems to,
8	dietary supplement industry.	8	you know, seems like I mean I don't think any
9	Q And what is your understanding of	9	one analytical lab does everything perfect, but he
10	Mr. Kababick's area of expertise?	10	seems to do a good job.
11	A Analytical laboratory expertise, looking	11	Q Does the information that you forwarded
12	at, you know, looking at a variety of compounds	12	on here, is this information you considered in
13	that are out there.	13	thinking about DMAA when you were at the FDA?
14	Q All right. Is this somebody that you	14	MR. SCOTT: Object as to form.
15	knew from your days at the NPA prior to going to	15	THE WITNESS: Yeah, I'm not sure
16	the FDA?	16	what you're asking, because some of this
17	A I think I first met Jim when I was in	17	information we already had. It was just a
18	graduate school at University of Illinois.	18	again, I would get a lot of these things, and
19	Q Was he studying at the same institutions	19	I wanted to make sure we kept a file on them.
20	you were?	20	BY MR. WENIK:
21	A No, but some of the meetings, there were	21	Q So I take it you reviewed what he said?
22	overlaps. The American Society of Pharmacognosy,	22	A I read it, yeah, but again it's nothing
23	the American Chemical Society, things like that.	23	we didn't already know from what was in you
24	There was some overlap.	24	know, what FDA already had available to it.
25	Q Okay. What's your understanding of	25	Q Okay. On the second page of this
	Page 100		Page 101
1	Daniel Fabricant, Ph.D.	1	Daniel Fabricant, Ph.D.
2	document, he talks about "I can only hope that FDA	2	Q What is your understanding of what the
3	is drawing back the bowstring on this and not	3	Ping paper was?
4	ignoring what I think is a blatant attempt to sell	4	A Well, we evaluated the Ping paper in our
5	yet another pharmaceutical drug dressed up as a	5	first memo. It was a paper from '96 in a journal
6	dietary supplement."	6	that I think is defunct, and from a researcher
7	What was your understanding of what were	7	that no one has ever met, describing the presence
8	the other pharmaceutical drug he was referring to	8	of DMAA in geranium.
9	there, your understanding, if you recall?	9	Q All right, and would it be fair to say
10	A No idea.	10	that at the time that the April 24, 2012 warning
11 12	MR. SCOTT: Object as to form.	11 12	letter went out, that you did not believe that
13	THE WITNESS: Yeah, you should ask Jim.	13	there was evidence of DMAA being present in geraniums?
14	BY MR. WENIK:	14	A Based on what we had seen and working
15	Q Oh, I will. We will.	15	through the process the way we had and again I
16	His deposition already took place?	16	believe you have that memo predating that. That's
17	MR. SCOTT: Yes, last Friday.	17	all laid out there. We followed the process and
18	MR. WENIK: We probably did	18	we moved ahead.
19	already.	19	Q But following the process, you didn't
20	BY MR. WENIK:	20	think that there was DMAA in geraniums at that
21	Q He wrote further on here, "I completely	21	time; is that right?
22	support Health Canada's position on this and their	22	A Well, the evidence suggested that DMAA
23	evaluation of the Ping paper."	23	was likely not from geraniums. Again, that's why
24	Do you see that?	24	we send the warning letter. This is a final
25	A Yes.	25	agency action. It says if there is information

Daniel Fabricant, Ph.D.  available, they can provide it. USPlabs did on a number of occasions, and it didn't rise up to the level.  Q These old textbooks that Mr. Kababick cites here, you believe that you had the benefit  The fabricant, Ph.D.  (Exhibit 11 was mark identification.) (Exhibit 12 was mark identification.)  BY MR. WENIK:	Page 103
3number of occasions, and it didn't rise up to the3identification.)4level.4(Exhibit 12 was mark5QThese old textbooks that Mr. Kababick5identification.)6cites here, you believe that you had the benefit6BY MR. WENIK:	Э.
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4 level. 4 (Exhibit 12 was mark 5 Q These old textbooks that Mr. Kababick 5 identification.) 6 cites here, you believe that you had the benefit 6 BY MR. WENIK:	
6 cites here, you believe that you had the benefit 6 BY MR. WENIK:	ed for
7 of that information, the original source material? 7 Q All right, Dr. Fabricant,	, I've placed
8 MR. SCOTT: Object as to form. 8 before you two documents that	-
9 THE WITNESS: I don't think it 9 identification as Fabricant Exh	ibit 11 and
would have gotten to or through the agency 10 Fabricant Exhibit 12.	
without that material, yes. 11 For the record, Fabricant	Exhibit 11 is
12 BY MR. WENIK: 12 an email between Patricia Deus	ster and a number of
Q Did you have conversations with 13 recipients, including you, and I	Fabricant Exhibit
14 Mr. Kababick about DMAA? 12 is a document from Health 0	Canada regarding
A A lot of people wanted to talk about 15 DMAA.	
DMAA, okay? Just because people have an opinion 16 So my first question to y	ou is: Looking
doesn't, you know, doesn't shape the agency's 27 at Fabricant Exhibit 11, that do	cument, have you
18 actions. 18 seen this before, this email before	ore?
Q Right, but my question is: Did you have 19 A I was copied on the three	
20 conversations with him about DMAA? 20 Q All right, and Patricia D	
A I had conversations with people about a 21 telling you that Health Canada	has decided to
22 lot of subjects. 22 classify DMAA as a drug.	
Q Including Mr. Kababick? 23 Do you see that?	
24 A Yes. 24 A Yes.	
25 Q Is it your understanding	that what she
Page 104	Page 105
Daniel Fabricant, Ph.D.	
2 was referring to in this August 2, 2011 email was 2 regarding it leading up to this	
3 what I put before you as Fabricant Exhibit 12, 3 bound by that arrangement v	
4 that that was the decision of Health Canada?  4 We were familiar with this p	prior to this.
5 A That's what she sent around. 5 BY MR. WENIK:	
6 Q All right, and this document, the 6 Q Prior to Fabricant Exhib	oit 5?
7 decision of Health Canada, is this something that 7 A Yes.	
8 was considered by your division within the FDA at 8 Q All right. So let's look a	
9 the time that Fabricant Exhibit 5, this warning 9 Canada document for a momen	-
letter, was being prepared?  10 So the second page under the distance   10 So the second page under the distance   11 So the second page under the distance   12 So the second page under the distance   12 So the second page under the distance   13 So the second page under the distance   14 So the second page under the distance   15 So the second page under the distanc	
A We had a preliminary we had a few 11 it says, "DMAA is used in party	y pilis, and my
	nov woe
preliminary calls. We had an information-sharing 12 question is:	
preliminary calls. We had an information-sharing arrangement with Canada, the FDA does, and so we arrangement with Canada, the FDA does, and so we arrangement with Canada, the FDA does, and so we are also arrangement with Canada, the FDA does, and so we are also arrangement with Canada, the FDA does, and so we are also arrangement with Canada, the FDA does, and so we are also arrangement with Canada, the FDA does, and so we are also arrangement with Canada, the FDA does, and so we are also arrangement with Canada, the FDA does, and so we are also arrangement with Canada, the FDA does, and so we are also arrangement with Canada, the FDA does, and so we are also arrangement with Canada, the FDA does, and so we are also arrangement with Canada, the FDA does, and so we are also arrangement with Canada, the FDA does, and so we are also arrangement with Canada, the FDA does, and so we are also arrangement with Canada, and arrangement wi	14 2012 warning
preliminary calls. We had an information-sharing arrangement with Canada, the FDA does, and so we had discussed it a number of times, and I think we had an information-sharing question is:  At the time that your age considering writing this April 2	
preliminary calls. We had an information-sharing arrangement with Canada, the FDA does, and so we had discussed it a number of times, and I think we had a draft memo long before this, and some of letter, Fabricant Exhibit 5, did years.	you have any
preliminary calls. We had an information-sharing arrangement with Canada, the FDA does, and so we had discussed it a number of times, and I think we had a draft memo long before this, and some of their references as well.  12 question is:  13 At the time that your age considering writing this April 2 letter, Fabricant Exhibit 5, did you information about DMAA being the present the presen	you have any
preliminary calls. We had an information-sharing arrangement with Canada, the FDA does, and so we had discussed it a number of times, and I think we had a draft memo long before this, and some of their references as well.  Q "Long before this" meaning Fabricant    question is:  At the time that your age considering writing this April 2 letter, Fabricant Exhibit 5, did y information about DMAA being pills" in the United States?	you have any g marketed as "party
preliminary calls. We had an information-sharing arrangement with Canada, the FDA does, and so we had discussed it a number of times, and I think we had a draft memo long before this, and some of their references as well.  Q "Long before this" meaning Fabricant Q "Long before this" meaning Fabricant Exhibit 12? You had a draft memo from Canada L2 question is:  At the time that your age considering writing this April 2 letter, Fabricant Exhibit 5, did y information about DMAA being pills" in the United States?  A We had seen some report	you have any g marketed as "party
preliminary calls. We had an information-sharing arrangement with Canada, the FDA does, and so we had discussed it a number of times, and I think we had a draft memo long before this, and some of their references as well.  Q "Long before this" meaning Fabricant Exhibit 12? You had a draft memo from Canada before this?  12 question is:  At the time that your age considering writing this April 2 letter, Fabricant Exhibit 5, did you information about DMAA being pills" in the United States?  A We had seen some report used as such.	you have any g marketed as "party rts that it was
preliminary calls. We had an information-sharing arrangement with Canada, the FDA does, and so we had discussed it a number of times, and I think we had a draft memo long before this, and some of their references as well.  Q "Long before this" meaning Fabricant Exhibit 12? You had a draft memo from Canada before this?  MR. SCOTT: Exhibit 12 is the question is:  At the time that your age considering writing this April 2 letter, Fabricant Exhibit 5, did y information about DMAA bein pills" in the United States?  A We had seen some report used as such.  Q In the United States, report of the pills in the United States in the pil	you have any g marketed as "party rts that it was ports of it
preliminary calls. We had an information-sharing arrangement with Canada, the FDA does, and so we had discussed it a number of times, and I think we had a draft memo long before this, and some of their references as well.  Q "Long before this" meaning Fabricant Exhibit 12? You had a draft memo from Canada before this?  MR. SCOTT: Exhibit 12 is the question is:  At the time that your age considering writing this April 2 letter, Fabricant Exhibit 5, did y information about DMAA being pills" in the United States?  A We had seen some report used as such.  Q In the United States, report of the pills in the United States in the United St	you have any g marketed as "party rts that it was ports of it
preliminary calls. We had an information-sharing arrangement with Canada, the FDA does, and so we had discussed it a number of times, and I think we had a draft memo long before this, and some of their references as well.  Q "Long before this" meaning Fabricant Exhibit 12? You had a draft memo from Canada before this?  MR. SCOTT: Exhibit 12 is the document from Canada. A draft of that?  MR. WENIK: I think that's what he  At the time that your age considering writing this April 2 letter, Fabricant Exhibit 5, did y information about DMAA bein pills" in the United States?  A We had seen some report used as such.  Q In the United States, republic document from Canada. A draft of that?	you have any g marketed as "party rts that it was ports of it d States as opposed
preliminary calls. We had an information-sharing arrangement with Canada, the FDA does, and so we had discussed it a number of times, and I think we had a draft memo long before this, and some of their references as well.  Q "Long before this" meaning Fabricant Exhibit 12? You had a draft memo from Canada before this?  MR. SCOTT: Exhibit 12 is the document from Canada. A draft of that?  MR. WENIK: I think that's what he  At the time that your age considering writing this April 2 letter, Fabricant Exhibit 5, did y information about DMAA bein pills" in the United States?  A We had seen some report used as such.  Q In the United States, republic document from Canada. A draft of that?	you have any g marketed as "party rts that it was ports of it d States as opposed puntries, if

	Page 106		Page 107
1	Daniel Fabricant, Ph.D.	1	Daniel Fabricant, Ph.D.
2	this, but we had, we had heard that that was one	2	The fact just generally that something
3	possible use of it.	3	is banned by an anti-doping agency, that in and of
4	Q All right, and it says further on in the	4	itself doesn't mean that the entity is unsafe,
5	third line, it says, "DMAA is included on the	5	does it?
6	World Anti-doping Agency's prohibited substance	6	A No.
7	list as a stimulant."	7	Q Would you agree with me that the
8	Do you see that?	8	Canadian government has a different regulatory
9	A Yes.	9	scheme for drugs and foods than the United States
10	Q So my question to you is and you	10	does?
11	mentioned before your regulatory expertise	11	A Yes.
12	because a substance is banned by an anti-doping	12	(Exhibit 13 was marked for
13	agency, does that fact in and of itself make it	13	identification.)
14	not a dietary ingredient?	14	(Exhibit 14 was marked for
15	A No, that wasn't what made it not a	15	identification.)
16	dietary ingredient.	16	BY MR. WENIK:
17	Q And the fact that something is banned by	17	
18	an anti-doping agency, does that in and of itself	18	Q So, Doctor, I've placed before you a document that I marked for identification as
19	mean that a substance is unsafe as opposed to	19	Fabricant Exhibit 13, which for the record is a
20	conferring some competitive advantage?	20	I downloaded it from the FDA's archive content on
21	A No. Again, DMAA, our findings and based	21	
22	•	22	their website, an April 27, 2012 press release,
23	on this memo were it wasn't in the plan, based on what we found.	23	and Exhibit 14 appears to be the same document
23 24		2.3 2.4	that you emailed to yourself back in April 27,
2 <del>4</del> 25	Q Right, but let's step back for a minute from DMAA.	2.4 2.5	2012, or maybe it was on your system back on
25			April 27, 2012.
_	Page 108		Page 109
1	Daniel Fabricant, Ph.D.	1	Daniel Fabricant, Ph.D.
2	Do you see that?	2	evidence of the safety of their products. They
3	A Yes.	3	haven't done that, and that makes the products
4	Q All right. So my question to you is:	4	adulterated, said Daniel Fabricant, Ph.D.,
5	First of all, have you seen these documents	5	director of the FDA's Dietary Supplement Program."
6	before?	1 ~	,
		6	Do you see that?
7	A Yes.	7	Do you see that? A Yes.
8	<ul><li>A Yes.</li><li>Q All right, and what is your</li></ul>	7 8	Do you see that? A Yes. Q Did you approve of that statement going
8 9	A Yes. Q All right, and what is your understanding of what they are?	7 8 9	Do you see that?  A Yes.  Q Did you approve of that statement going into the press release?
8 9 10	<ul><li>A Yes.</li><li>Q All right, and what is your</li><li>understanding of what they are?</li><li>A They are a press announcement regarding</li></ul>	7 8 9 10	Do you see that?  A Yes.  Q Did you approve of that statement going into the press release?  A Yes.
8 9 10 11	A Yes. Q All right, and what is your understanding of what they are? A They are a press announcement regarding the ten warning letters that went out on DMAA.	7 8 9 10 11	Do you see that?  A Yes.  Q Did you approve of that statement going into the press release?  A Yes.  Q All right.
8 9 10 11 12	A Yes. Q All right, and what is your understanding of what they are? A They are a press announcement regarding the ten warning letters that went out on DMAA. Q Okay. Did you have a role in helping to	7 8 9 10 11	Do you see that?  A Yes.  Q Did you approve of that statement going into the press release?  A Yes.  Q All right.  If we look at the warning letters or
8 9 10 11 12 13	A Yes. Q All right, and what is your understanding of what they are? A They are a press announcement regarding the ten warning letters that went out on DMAA. Q Okay. Did you have a role in helping to draft the press announcement regarding the warning	7 8 9 10 11 12 13	Do you see that?  A Yes.  Q Did you approve of that statement going into the press release?  A Yes.  Q All right.  If we look at the warning letters or rather the list in the press release of the
8 9 10 11 12 13 14	A Yes. Q All right, and what is your understanding of what they are? A They are a press announcement regarding the ten warning letters that went out on DMAA. Q Okay. Did you have a role in helping to draft the press announcement regarding the warning letters that went out on DMAA?	7 8 9 10 11 12 13	Do you see that?  A Yes.  Q Did you approve of that statement going into the press release?  A Yes.  Q All right.  If we look at the warning letters or rather the list in the press release of the warning letters, it does not include under the
8 9 10 11 12 13 14	A Yes. Q All right, and what is your understanding of what they are? A They are a press announcement regarding the ten warning letters that went out on DMAA. Q Okay. Did you have a role in helping to draft the press announcement regarding the warning letters that went out on DMAA? A Yes.	7 8 9 10 11 12 13 14	Do you see that?  A Yes. Q Did you approve of that statement going into the press release? A Yes. Q All right. If we look at the warning letters or rather the list in the press release of the warning letters, it does not include under the list of companies Hi-Tech Pharmaceuticals, does
8 9 10 11 12 13 14 15	A Yes. Q All right, and what is your understanding of what they are? A They are a press announcement regarding the ten warning letters that went out on DMAA. Q Okay. Did you have a role in helping to draft the press announcement regarding the warning letters that went out on DMAA? A Yes. Q What was your role in doing that?	7 8 9 10 11 12 13 14 15	Do you see that?  A Yes. Q Did you approve of that statement going into the press release? A Yes. Q All right. If we look at the warning letters or rather the list in the press release of the warning letters, it does not include under the list of companies Hi-Tech Pharmaceuticals, does it?
8 9 10 11 12 13 14 15 16	A Yes. Q All right, and what is your understanding of what they are? A They are a press announcement regarding the ten warning letters that went out on DMAA. Q Okay. Did you have a role in helping to draft the press announcement regarding the warning letters that went out on DMAA? A Yes. Q What was your role in doing that? A Obviously we provided the expert memo	7 8 9 10 11 12 13 14 15 16	Do you see that?  A Yes.  Q Did you approve of that statement going into the press release?  A Yes.  Q All right.  If we look at the warning letters or rather the list in the press release of the warning letters, it does not include under the list of companies Hi-Tech Pharmaceuticals, does it?  A No.
8 9 10 11 12 13 14 15 16 17	A Yes. Q All right, and what is your understanding of what they are? A They are a press announcement regarding the ten warning letters that went out on DMAA. Q Okay. Did you have a role in helping to draft the press announcement regarding the warning letters that went out on DMAA? A Yes. Q What was your role in doing that? A Obviously we provided the expert memo underneath that to the press office and worked	7 8 9 10 11 12 13 14 15 16 17	Do you see that?  A Yes.  Q Did you approve of that statement going into the press release?  A Yes.  Q All right.  If we look at the warning letters or rather the list in the press release of the warning letters, it does not include under the list of companies Hi-Tech Pharmaceuticals, does it?  A No.  Q Okay. So Hi-Tech is not here, and
8 9 10 11 12 13 14 15 16 17 18	A Yes. Q All right, and what is your understanding of what they are? A They are a press announcement regarding the ten warning letters that went out on DMAA. Q Okay. Did you have a role in helping to draft the press announcement regarding the warning letters that went out on DMAA? A Yes. Q What was your role in doing that? A Obviously we provided the expert memo underneath that to the press office and worked with them on drafting it.	7 8 9 10 11 12 13 14 15 16 17 18	Do you see that?  A Yes. Q Did you approve of that statement going into the press release? A Yes. Q All right. If we look at the warning letters or rather the list in the press release of the warning letters, it does not include under the list of companies Hi-Tech Pharmaceuticals, does it? A No. Q Okay. So Hi-Tech is not here, and neither are any Hi-Tech products listed here, are
8 9 10 11 12 13 14 15 16 17 18 19 20	A Yes. Q All right, and what is your understanding of what they are? A They are a press announcement regarding the ten warning letters that went out on DMAA. Q Okay. Did you have a role in helping to draft the press announcement regarding the warning letters that went out on DMAA? A Yes. Q What was your role in doing that? A Obviously we provided the expert memo underneath that to the press office and worked with them on drafting it. Q Okay, and I'm looking at Fabricant	7 8 9 10 11 12 13 14 15 16 17 18	Do you see that?  A Yes. Q Did you approve of that statement going into the press release? A Yes. Q All right. If we look at the warning letters or rather the list in the press release of the warning letters, it does not include under the list of companies Hi-Tech Pharmaceuticals, does it?  A No. Q Okay. So Hi-Tech is not here, and neither are any Hi-Tech products listed here, are there?
8 9 10 11 12 13 14 15 16 17 18 19 20 21	A Yes. Q All right, and what is your understanding of what they are? A They are a press announcement regarding the ten warning letters that went out on DMAA. Q Okay. Did you have a role in helping to draft the press announcement regarding the warning letters that went out on DMAA? A Yes. Q What was your role in doing that? A Obviously we provided the expert memo underneath that to the press office and worked with them on drafting it. Q Okay, and I'm looking at Fabricant Exhibit 14, just because it's not cut off. It	7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	Do you see that?  A Yes. Q Did you approve of that statement going into the press release? A Yes. Q All right. If we look at the warning letters or rather the list in the press release of the warning letters, it does not include under the list of companies Hi-Tech Pharmaceuticals, does it? A No. Q Okay. So Hi-Tech is not here, and neither are any Hi-Tech products listed here, are there? A No.
8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	A Yes. Q All right, and what is your understanding of what they are? A They are a press announcement regarding the ten warning letters that went out on DMAA. Q Okay. Did you have a role in helping to draft the press announcement regarding the warning letters that went out on DMAA? A Yes. Q What was your role in doing that? A Obviously we provided the expert memo underneath that to the press office and worked with them on drafting it. Q Okay, and I'm looking at Fabricant Exhibit 14, just because it's not cut off. It says, "Before marketing products containing	7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	Do you see that?  A Yes. Q Did you approve of that statement going into the press release? A Yes. Q All right. If we look at the warning letters or rather the list in the press release of the warning letters, it does not include under the list of companies Hi-Tech Pharmaceuticals, does it? A No. Q Okay. So Hi-Tech is not here, and neither are any Hi-Tech products listed here, are there? A No. Q Let me rephrase that.
8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	A Yes. Q All right, and what is your understanding of what they are? A They are a press announcement regarding the ten warning letters that went out on DMAA. Q Okay. Did you have a role in helping to draft the press announcement regarding the warning letters that went out on DMAA? A Yes. Q What was your role in doing that? A Obviously we provided the expert memo underneath that to the press office and worked with them on drafting it. Q Okay, and I'm looking at Fabricant Exhibit 14, just because it's not cut off. It says, "Before marketing products containing DMAA" I'm looking at the second paragraph from	7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	Do you see that?  A Yes.  Q Did you approve of that statement going into the press release?  A Yes.  Q All right.  If we look at the warning letters or rather the list in the press release of the warning letters, it does not include under the list of companies Hi-Tech Pharmaceuticals, does it?  A No.  Q Okay. So Hi-Tech is not here, and neither are any Hi-Tech products listed here, are there?  A No.  Q Let me rephrase that.  Would you agree with me that Hi-Tech
8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	A Yes. Q All right, and what is your understanding of what they are? A They are a press announcement regarding the ten warning letters that went out on DMAA. Q Okay. Did you have a role in helping to draft the press announcement regarding the warning letters that went out on DMAA? A Yes. Q What was your role in doing that? A Obviously we provided the expert memo underneath that to the press office and worked with them on drafting it. Q Okay, and I'm looking at Fabricant Exhibit 14, just because it's not cut off. It says, "Before marketing products containing	7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	Do you see that?  A Yes. Q Did you approve of that statement going into the press release? A Yes. Q All right. If we look at the warning letters or rather the list in the press release of the warning letters, it does not include under the list of companies Hi-Tech Pharmaceuticals, does it? A No. Q Okay. So Hi-Tech is not here, and neither are any Hi-Tech products listed here, are there? A No. Q Let me rephrase that.

	Page 110		Page 111
1	Daniel Fabricant, Ph.D.	1	Daniel Fabricant, Ph.D.
2	A Yes.	2	A I am.
3	Q Would you agree with me that the press	3	Q How do you know Mr. Mister?
4	release doesn't list any Hi-Tech products?	4	A He is the CEO of the Council for
5	A Yes.	5	Responsible Nutrition.
6	Q Okay. Do you believe the press release	6	Q And what is the Council for Responsible
7	is accurate?	7	Nutrition?
8	MR. SCOTT: Object as to form.	8	A It is a supplement trade association.
9	THE WITNESS: Yes. It talks about	9	Q And that's something distinct from
10	the actions that were taken by the agency.	10	separate from the Natural Products Association?
11	(Exhibit 15 was marked for	11	A They are separate. I'd like to think
12	identification.)	12	that, yes, we are very distinct. They tend to
13	BY MR. WENIK:	13	represent more of, more of MLM type companies,
14	Q So, Dr. Fabricant, I've placed before	14	multilevel marketing, not necessarily as involved
15	you a document that I've marked for identification	15	in retail as my organization.
16	as Fabricant Exhibit 15, which looks like a news	16	Q All right, and look at the second page
17	article that's been incorporated into an email	17	of the document, and at the bottom third of the
18	chain back on April 27 of 2012.	18	page, there are some quotations from Mr. Mister,
19	Do you see this?	19	and he says, amongst other things, that "The CRN
20	A Mm-hmm, yes.	20	has no vested interest in DMAA, he said, but
21	Q And are you in the email chain, your	21	added: 'We've always said we don't want to rush
22	name?	22	to judgment on this. The science of this has to
23	A Yes, I am.	23	play out, and hopefully this is now an opportunity
24	Q Are you familiar with an individual	24	for the companies listed to give us some more
25	known as Steve Mister?	25	clarity.'"
	Page 112		Page 113
1	Daniel Fabricant, Ph.D.	1	Daniel Fabricant, Ph.D.
2	And then further on there's a quote	2	BY MR. WENIK:
3	from him. "I don't see this as a black and white	3	Q Dr. Fabricant, I've placed before you a
4	issue. There are many shades of gray."	4	document that I've marked for identification as
5	And in the email chain you said that,	5	Fabricant Exhibit 16, which is a memorandum from a
6	quote, "Can you believe Steve Mister? What a	6	Louis Carlacci and Ying Lin to you, dated May 17,
7	putz!"	7	2012, and it's a 12-page document, and I don't
8	My question to you is: Putting aside	8	have a lot of detailed questions about it, but
9	the translation of the Yiddish word "putz," what	9	feel free to take a look at it.
10	were you referring to what was your what	10	My first question is: Is this something
11	was your referring to is your incredulity	11	that you recall seeing?
12	regarding Mr. Mister's statement, what was he	12	A Yes.
13	referring to?	13	Q All right. Who is Louis Carlacci?
14	MR. SCOTT: Objection as to form.	14	A He was a reviewer on the NDI team, a
15	THE WITNESS: I had a conversation	15	chemist.
16		1	
L _	with Steve Mister earlier in 2012. He	16	Q And who is Ying Lin?
17	with Steve Mister earlier in 2012. He actually called the agency to inquire about	17	A Ying Lin was originally an ORISE fellow,
18	with Steve Mister earlier in 2012. He actually called the agency to inquire about if we were taking action on DMAA. So I found	17 18	A Ying Lin was originally an ORISE fellow, Oak Ridge Institute of Science, who was brought in
18 19	with Steve Mister earlier in 2012. He actually called the agency to inquire about if we were taking action on DMAA. So I found it a little interesting that, you know, he	17 18 19	A Ying Lin was originally an ORISE fellow, Oak Ridge Institute of Science, who was brought in as a chemist.
18 19 20	with Steve Mister earlier in 2012. He actually called the agency to inquire about if we were taking action on DMAA. So I found it a little interesting that, you know, he was trying to get information out of the	17 18 19 20	A Ying Lin was originally an ORISE fellow, Oak Ridge Institute of Science, who was brought in as a chemist. Q And they were both these are both FDA
18 19 20 21	with Steve Mister earlier in 2012. He actually called the agency to inquire about if we were taking action on DMAA. So I found it a little interesting that, you know, he was trying to get information out of the agency, which he didn't, and now seemed to be	17 18 19 20 21	A Ying Lin was originally an ORISE fellow, Oak Ridge Institute of Science, who was brought in as a chemist. Q And they were both these are both FDA employees, I take it?
18 19 20 21 22	with Steve Mister earlier in 2012. He actually called the agency to inquire about if we were taking action on DMAA. So I found it a little interesting that, you know, he was trying to get information out of the agency, which he didn't, and now seemed to be politicizing the agency's action, so to	17 18 19 20 21 22	A Ying Lin was originally an ORISE fellow, Oak Ridge Institute of Science, who was brought in as a chemist. Q And they were both these are both FDA employees, I take it? A Yes, in the division.
18 19 20 21 22 23	with Steve Mister earlier in 2012. He actually called the agency to inquire about if we were taking action on DMAA. So I found it a little interesting that, you know, he was trying to get information out of the agency, which he didn't, and now seemed to be politicizing the agency's action, so to speak, in his comments, his quotes.	17 18 19 20 21 22 23	A Ying Lin was originally an ORISE fellow, Oak Ridge Institute of Science, who was brought in as a chemist. Q And they were both these are both FDA employees, I take it? A Yes, in the division. Q All right, and their expertise was in
18 19 20 21 22	with Steve Mister earlier in 2012. He actually called the agency to inquire about if we were taking action on DMAA. So I found it a little interesting that, you know, he was trying to get information out of the agency, which he didn't, and now seemed to be politicizing the agency's action, so to	17 18 19 20 21 22	A Ying Lin was originally an ORISE fellow, Oak Ridge Institute of Science, who was brought in as a chemist. Q And they were both these are both FDA employees, I take it? A Yes, in the division.

Page 114 Page 115 1 Daniel Fabricant, Ph.D. 1 Daniel Fabricant, Ph.D. 2 Q And they directed this memorandum to you 2 memorandum that we're looking at that's identified 3 and Corey Hilmas. Did you direct them to prepare 3 as Fabricant Exhibit 16? 4 this memorandum? 4 A We looked at the Ping study long before 5 5 this letter. This is just a deeper dive, and Ying A Yes. 6 Q And what was the purpose of creating 6 made some very good corrections in terms of -- or 7 this memorandum? 7 found a lot of errors in a deeper dive on the Ping 8 A They did a further dive on some of the 8 study. 9 chromatography with regard to the Ping study. We 9 Q Do you know how long it took them to had, again, had a meeting with Peter Hutt, who was 10 prepare this analysis? Do you recall whether it 10 11 USPlabs' counsel at the time, where he raised the 11 was weeks or days or months? 12 12 Ping study a number of times. A Weeks, I believe, but again I'd have to 13 13 And so while our initial, you know, our see the thread there to be sure. 14 initial -- and this memo was after the first <u>l</u>4 (Exhibit 17 was marked for 15 warning letter. We had an original read on Ping, 15 identification.) 16 but we dove further as it was ongoing, and we got 16 BY MR. WENIK: Q So, Dr. Fabricant, I've placed before 17 more information. Ying also, given that she is a 17 18 native Chinese speaker, was very helpful in that 18 you a document I've marked for identification as 19 19 Fabricant Exhibit 17, which is a copy of a paper regard in translating the original text. 20 20 Q So if I understand your answer, do you that was published in the Journal of Analytical 21 believe that somebody had taken a look -- somebody 21 Toxicology by a number of authors, including 22 within the FDA, rather, had taken a look at the 22 Mahmoud ElSohly and Ikhlas Khan, who we spoke Ping study before the April 24, 2012 warning 23 23 about earlier. 24 letters went out, or did you look at the Ping 24 My first question to you is: Have you 25 study for the first time afterward as part of this 25 seen this paper before? Page 116 Page 117 1 Daniel Fabricant, Ph.D. 1 Daniel Fabricant, Ph.D. 2 2 A Yes. would be: Did you have access to some of their preliminary findings or data prior to the issuance 3 3 Q Now, if you look at the top of the of this warning letter that we've marked as 4 document, it says that it was initially published 4 on June 25, 2012, which would have been after the 5 Fabricant Exhibit 5? 5 6 date of the warning letter Fabricant filed that 6 A No, not that I recall. 7 7 was April 24, 2012. Do you see that? O All right. A Yes. 8 8 Now, this article talks about 9 9 Pelargonium oil and methyl hexaneamine or MHA. Q My next question then would be: Did you 10 have access to the data underlying this paper or 10 Would you agree with me that methyl hexaneamine or 11 MHA is just a synonym for DMAA? 11 manuscript or draft of it prior to the warning 12 12 letter that was issued on April 24, 2012? A It is. 13 MR. SCOTT: Object as to form. 13 Q And if we look at the very last page of THE WITNESS: When you say "data," 14 14 the document, there's an acknowledgements section. 15 do you mean were we knowledgeable that they 15 It says that "this project was supported in part 16 16 by the U.S. Anti-Doping Agency in Colorado were doing a study or final data? 17 17 Springs." BY MR. WENIK: 18 18 Do you see that? Q Let's take it in parts. 19 19 First, were you knowledgeable that the A Yes. 20 National Center for Natural Products Research was 20 Q Were you aware that the anti-doping 21 agency was providing some funding for this work? 21 conducting this study? MR. SCOTT: Objection. Time frame. 22 A We were knowledgeable they were looking 22 23 into DMAA, as well as were a number of people at 23 THE WITNESS: Yeah. 24 24 BY MR. WENIK: the time. 25 Q All right, and my second question then 25 Q There's a fair objection.

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1	Daniel Fabricant, Ph.D.	1	Daniel Fabricant, Ph.D.
2	Were you aware around, in the spring of	2	training in toxicology?
3	2012, that the anti-doping agency was providing	3	A I think you may want to well
4	some funding for this research?	4	MR. SCOTT: Object as to form. If
5	A Honestly, I couldn't remember when	5	you know, you know, but don't speculate.
6	exactly we knew that. You know, it didn't make a	6	BY MR. WENIK:
7	difference in terms of the warning letter. I	7	Q No, I don't want you to speculate. If
8	mean	8	you don't know
9	Q Would it be fair to say that the lion's	9	A I don't want to speculate.
10		10	Q Do you know whether he had any training
11	FDA via support from the National Center for	11	in epidemiology?
12	Natural Products Research?	12	A I'm not going to speculate.
		13	
13	<b>3</b>		Q How about pharmacology?
14	1	14	A He was a professor of pharmacology.
15	funding for this project?	15	Q All right. Let's take Dr. Khan. Do you
16	A Again, I, I'm not having what was	16	know whether he has any training in epidemiology?
17	budgeted and those sorts of things, the	17	A I don't.
18	line-by-line items, I'm not going to speculate to	18	Q Toxicology?
19	that. Obviously, the agency provided a lot of	19	A He's published quite a bit of
20	funding to the university over the years. To the	20	toxicological research.
21	1 1	21	Q Epidemiology?
22		22	A You asked that already.
23	but no.	23	Q For Khan? I don't think I asked that
24		24	for Khan.
25	about Dr. ElSohly. Do you know if he has any	25	A Yeah.
	Page 120		Page 121
1	Page 120 Daniel Fabricant, Ph.D.	1	Page 121 Daniel Fabricant, Ph.D.
1 2	Daniel Fabricant, Ph.D.  Q Refresh my recollection. Did you say	1 2	Daniel Fabricant, Ph.D.  Did you provide any feedback or review
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2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	Daniel Fabricant, Ph.D.  Q Refresh my recollection. Did you say you didn't know?  A I didn't know. Q Okay, but would you agree with me that their primary expertise is chemistry?  MR. SCOTT: Symptom.  THE WITNESS: Again, natural products chemistry is largely what they're known for, but it's a multidisciplinary science.  BY MR. WENIK: Q Do you know whether Dr. Khan has any legal training?  MR. SCOTT: Object as to form.  THE WITNESS: I don't know.  BY MR. WENIK: Q How about Dr. ElSohly? A I don't know.  MR. SCOTT: Same objection.  BY MR. WENIK: Q All right. Take a look at page 12 of the article, and let me ask this foundational	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	Daniel Fabricant, Ph.D.  Did you provide any feedback or review of drafts of this article before it became published, "you" meaning you personally, not the FDA?  A I don't believe so. Q Do you know whether anyone else in the FDA provided any editing or comments to drafts of this article before it was published?  A Not that I know of. Q All right.  Looking at page 12, and on the column to the right, there's a paragraph that begins "a dietary supplement, according to DSHEA, is a product that is labeled as a dietary supplement and is not represented for use as a food or as a cure for any disease," and then there's a discussion about DSHEA and NDI that goes to the bottom of that page and a little bit over to the next page.  Do you see that?  A Yes.

	Page 122		Page 123
1	Daniel Fabricant, Ph.D.	1	Daniel Fabricant, Ph.D.
2	interpretation?	2	"There is reasonable cause for concern regarding
3	A It happens frequently in the dietary	3	the safety of MHA, given two published case
4	supplement arena. People mention regulatory	4	reports in which ingestion of MHA resulted in
5	status frequently, whether or not it's correct,	5	severe adverse events, including cerebral
6	but it is mentioned frequently.	6	hemorrhage."
7	Q Do you consider either of these	7	Do you see that?
8	gentleman, Khan or ElSohly, regulatory experts?	8	A Yes.
9	MR. SCOTT: Object as to form.	9	Q All right.
10	THE WITNESS: I mean they're very	10	Are either of these gentlemen, Khan or
11	good chemists. Regulatory experts? Again,	11	ElSohly, clinicians, to your knowledge?
12	they've never worked at the agency, so I	12	MR. SCOTT: Object as to form.
13	wouldn't I think they have some general	13	THE WITNESS: They're not
14	knowledge. They help training inspectors,	14	clinicians. I didn't know you needed to be
15	they do things that are available, so in some	15	to cite a study.
16	vein, yeah, they are regulatory experts.	16	BY MR. WENIK:
17	University of Mississippi still helps to	17	Q Do you consider them experts on the
18	train FDA inspectors.	18	safety of natural products?
19	So they are very familiar with the	19	MR. SCOTT: Same objection.
20	agency. We certainly provided training to	20	THE WITNESS: They're not that's
21	them over the years when I was at the agency,	21	not their area of expertise. However, they
22	so I think they're knowledgeable.	22	certainly can cite things that are in the
23	BY MR. WENIK:	23	literature as scientists.
24	Q Take a look at the next page, page 13.	24	MR. WENIK: Do you consider them
25	I'm looking at the right-hand column, and it says,	25	qualified to evaluate a case report in the
	Page 124		Page 125
1	Daniel Fabricant, Ph.D.	1	Daniel Fabricant, Ph.D.
2	same vein that you are?	2	Exhibit 18.
3	MR. SCOTT: Same objection. Object	3	The top of the document appears to be an
4	as to form.	4	email between Mahmoud ElSohly and Ikhlas Khan.
5	THE WITNESS: Again, this is for	5	The bottom seems to be the press release that was
6	the purpose of publication. My evaluation of	6	in email form that we have in Exhibit 14.
7	this was for the purpose of upholding the	7	Do you see that?
8	law, so it's a different, different area. I	8	A No, they're not the same documents, but
9	think, you know, what they're writing is all	9	that's fine, because obviously this and this are
10	based on what's in the literature.	10	different, how they're formatted, the text.
11	BY MR. WENIK:	11	Q That was going to be my next question.
12	Q Did you think it was odd that chemists	12	Did you forward to them some version of the press
13	who were publishing a study with chromatograms and	13	release? And you are correct; it is formatted a
14	analyzing whether something is in a plant or not	14	little differently. That was going to be my next
15	are commenting about the safety of DMAA?	15	question.
16			
16	•	16	A It's computer formatted differently.
16 17	A Well, again, it's more than just chemists here, but on the publication list, no.	16 17	A It's computer formatted differently.  This we sent around so people were aware of it.
	A Well, again, it's more than just		
17	A Well, again, it's more than just chemists here, but on the publication list, no.	17	This we sent around so people were aware of it.
17 18	A Well, again, it's more than just chemists here, but on the publication list, no. Again, it's not uncommon, and they're citing the	17 18	This we sent around so people were aware of it.  Q Okay. Did he call you to congratulate
17 18 19 20 21	A Well, again, it's more than just chemists here, but on the publication list, no. Again, it's not uncommon, and they're citing the literature. It would be uncommon if they didn't	17 18 19 20 21	This we sent around so people were aware of it.  Q Okay. Did he call you to congratulate you on the issuance of the warning letters and the
17 18 19 20 21 22	A Well, again, it's more than just chemists here, but on the publication list, no.  Again, it's not uncommon, and they're citing the literature. It would be uncommon if they didn't cite the literature.  (Exhibit 18 was marked for identification.)	17 18 19 20 21 22	This we sent around so people were aware of it.  Q Okay. Did he call you to congratulate you on the issuance of the warning letters and the press release? Did Dr. ElSohly call you?  A I don't think he did, but I heard from Khan.
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17 18 19 20 21 22	A Well, again, it's more than just chemists here, but on the publication list, no.  Again, it's not uncommon, and they're citing the literature. It would be uncommon if they didn't cite the literature.  (Exhibit 18 was marked for identification.)	17 18 19 20 21 22	This we sent around so people were aware of it.  Q Okay. Did he call you to congratulate you on the issuance of the warning letters and the press release? Did Dr. ElSohly call you?  A I don't think he did, but I heard from Khan.

	Page 126		Page 127
1	Daniel Fabricant, Ph.D.	1	Daniel Fabricant, Ph.D.
2	Q Did both of these gentlemen express to	2	MR. SCOTT: Object as to form.
3	you their personal view well, let's take them	3	THE WITNESS: Again, I'm not going
4	one at a time. I don't want it to be a compound	4	to speculate. I'm sure he did. I heard a
5	question.	5	lot of different things on DMAA from a lot of
6	Did ElSohly express to you you	6	different people.
7	personally, not the FDA as a whole express to	7	BY MR. WENIK:
8	you his belief that he thought DMAA was dangerous?	8	Q Did Dr. Khan express to you at any time
9	MR. SCOTT: Object as to form.	9	his personal belief that DMAA was dangerous?
10	•	10	MR. SCOTT: Same objection.
11	BY MR. WENIK:	11	THE WITNESS: Same answer. They
12	Q At any time.	12	¥
13		13	might have. Again, it's not really relevant. BY MR. WENIK:
13 14	0 1 1		
15		14 15	Q Okay. Did Dr. Khan express to you his
16		15 16	belief that DMAA should be removed from the
	1		marketplace?
17		17	A It's not relevant. That's not his
18	1	18	decision to make.
19	· ·	19	Q I understand that. However, did he
20		20	express that belief to you?
21		21	A Again, a lot of people said a lot of
22	•	22	different things on DMAA. As to specific
23		23	conversations, I, I mean there's nothing I can
24	• • • • • •	24	really say. Just speculate. I can't remember
25	belief that he thought DMAA was dangerous?	25	every conversation I had on every action we've
	Page 128		5 100
	1490 120		Page 129
1	Daniel Fabricant, Ph.D.	1	Daniel Fabricant, Ph.D.
1 2		1 2	
	Daniel Fabricant, Ph.D. ever taken. Q Do you recall whether Dr. ElSohly		Daniel Fabricant, Ph.D.
2	Daniel Fabricant, Ph.D. ever taken.	2	Daniel Fabricant, Ph.D. science, it was very, very odd, as someone who has
2 3	Daniel Fabricant, Ph.D. ever taken. Q Do you recall whether Dr. ElSohly	2	Daniel Fabricant, Ph.D. science, it was very, very odd, as someone who has a natural products background as well, you
2 3 4	Daniel Fabricant, Ph.D. ever taken. Q Do you recall whether Dr. ElSohly expressed to you at any time that his belief that DMAA should be removed from the marketplace? A Again, I their opinion was valuable	2 3 4	Daniel Fabricant, Ph.D. science, it was very, very odd, as someone who has a natural products background as well, you generally won't have a plant that's that well
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2 3 4 5 6	Daniel Fabricant, Ph.D. ever taken. Q Do you recall whether Dr. ElSohly expressed to you at any time that his belief that DMAA should be removed from the marketplace? A Again, I their opinion was valuable	2 3 4 5 6	Daniel Fabricant, Ph.D. science, it was very, very odd, as someone who has a natural products background as well, you generally won't have a plant that's that well studied that all of a sudden there's a new compound that no one has seen before, and that
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MR. SCOTT: Sure. 19 coverage in various period publications; is	
	that
20 (Whereupon, the lunch recess was 20 right?	
taken.) 21 A Yes. Anytime the agency does any	thing,
(Exhibit 19 was marked for 22 it's a public agency.	
23 identification.) 23 Q Okay, and did this spark any	
24 BY MR. WENIK: 24 conversation between you and Dr. Khan re	~ ~
Q Doctor, I placed before you a document 25 the action that was taken against these vari	ous
Page 132	age 133
Daniel Fabricant, Ph.D.	
2 companies? 2 Dr. Khan where you said, "As Norm used to s	ay',
3 A I mean I think he was happy. A lot of 3 Never underestimate the predictability of	
4 people were happy, because it you know, again, 4 stupidity."	
5 the burden what people see externally at the 5 Who is Norm? Who are you referring	o?
6 agency is one thing. The work that goes into 6 A My Ph.D. advisor, but he is no longer	
7 making a case and things like that is quite 7 with us. Norm Farnsworth.	
8 another. So I think Dr. Khan was happy that the 8 Q And you wrote, "It's amazing that folk	s
9 agency had taken action. You know, I think there 9 can still say it's in the plant."	
was a lot of people that shared that sentiment, by "in the plant," were you referring to	
that there's it was odd that DMAA was even 11 geranium?	
12 supposed to be there. 12 A Yes. I think, you know, it was from	
Q All right. 13 a we were excited at the agency about	
14 (Exhibit 20 was marked for 14 protecting public health. You had something	here
15 identification.) 15 that was put forth that it was very, it was very	
16 BY MR. WENIK: 16 concerning.	
Q So I have another email chain or rather Q All right. Take a look at the second	
extension of the email chain that began here in page of this document if you don't mind, Fabr	icant
Fabricant Exhibit 19 with a couple more emails in 19 Exhibit 20.	
20 Fabricant Exhibit 20.	
I guess my first question is: Are you 21 Q So there's this blurb again from the	
in the email chain that we have identified here in 22 AHPA, and look at the third full paragraph, tl	e
Fabricant Exhibit 20? Does your name appear? 23 last sentence. "In AHPA's views, if DMAA expressions of the sentence of the se	
24 A Yes. 24 in geranium through the plant's own synthesis	
Q And it's an exchange between you and processes, human-synthesized DMAA is also	a lawful

	Page 134		Page 135
1	Daniel Fabricant, Ph.D.	1	Daniel Fabricant, Ph.D.
2	dietary ingredient."	2	Q Okay, and I take it even if it existed
3	Is that a proposition that you disagree	3	in the plant, that would be your position?
4	with?	4	A Well, again, I think that when you're
5	MR. SCOTT: Object as to form.	5	dealing with synthesis of a botanical, there are
6	THE WITNESS: I'm sorry. Would you	6	certain factors that need to be considered, so I
7	point out where	7	don't think that this accurately this statement
8	BY MR. WENIK:	8	accurately captures that.
9	Q I'm looking at the third full paragraph,	9	Q What other things need to be considered,
10	the very last sentence. It says, "In AHPA's view,	10	in your opinion?
11	if DMAA exists in geranium through the plant's own	11	A Well, the agency just released a new
12	synthesis processes, human-synthesized DMAA is	12	guidance, draft guidance on NDIs where they talk
13	also a lawful dietary ingredient."	13	about chirality and they talk about things like
14	My question is whether you disagree with	14	that. So just because it's synthesized wouldn't
15	that, that proposition.	15	make it lawful. Other things would have to be
16	A Well, there's two propositions in that	16	considered appropriately.
17	statement. Which one are you asking if I disagree	17	(Exhibit 21 was marked for
18	with; if DMAA is in the plant or if	18	identification.)
19	human-synthesized DMAA is also a lawful	19	BY MR. WENIK:
20	ingredient?	20	Q Dr. Fabricant, I've placed before you a
21	Q Well, let's take the last one. Is	21	document that I've marked for identification as
22	human-synthesized DMAA a lawful dietary	22	Fabricant Exhibit 21, and let me put an
23	ingredient?	23	explanation on the record.
24	A That would not be the agency's position,	24	The first page has a Bates number of
25	no.	25	GOV-007039. The document that's attached to it
	Page 136		Page 137
1	Daniel Fabricant, Ph.D.	1	Daniel Fabricant, Ph.D.
2	has a different Bates numbering system. I'll	2	reviewed this study at the time it came in to the
3	represent to you that the government did not	3	FDA sometime in 2012?
4	produce the attachments to emails to us	4	A When it came in, yeah, of course, we
5	sequentially documented, but we were able to	5	reviewed it.
6	determine from the metadata and the families which	6	Q Okay, and what reaction did you have
7	went with which.	7	when you saw the study, the best you can recall?
8	So I'll represent to you that it's my	8	I understand we're talking four years later. What
9	belief that the document that begins GOV-012486 is	9	was, best you recall, your initial reaction to it
10	the attachment that's identified in the document	10	when you first saw that study?
11	that belongs to Fabricant Exhibit 21.	11	MR. SCOTT: Let me stop and impose
12	A Okay.	12	an objection.
13	Q At any rate, we talked before, I think,	13	You can answer the question to the
14	about I think you mentioned in passing Frank	14	extent that it relates to any positions that
15	Jaksch, and he is a founder of ChromaDex; is that	15	you have taken public or the agency has taken
16	right?	16	public, but if there are conversations,
17	A That's correct.	17	analysis that went on before there being a
18	Q All right, and he sent you do you	18	public position regarding the study and how
L .		L _	
19	recall him sending you, back in August of 2012,	19	it goes into your analysis, you should not
20	recall him sending you, back in August of 2012, the Li study that purported to find DMAA in	20	reveal those, because those are part of the
20 21	recall him sending you, back in August of 2012, the Li study that purported to find DMAA in geranium?	20 21	reveal those, because those are part of the deliberative process privilege.
20 21 22	recall him sending you, back in August of 2012, the Li study that purported to find DMAA in geranium?  A Do I remember it, no, but obviously it	20 21 22	reveal those, because those are part of the deliberative process privilege.  THE WITNESS: Yeah, I think we
20 21 22 23	recall him sending you, back in August of 2012, the Li study that purported to find DMAA in geranium?  A Do I remember it, no, but obviously it happened. It's right here, and I'm pretty sure we	20 21 22 23	reveal those, because those are part of the deliberative process privilege.  THE WITNESS: Yeah, I think we there's really nothing to say.
20 21 22	recall him sending you, back in August of 2012, the Li study that purported to find DMAA in geranium?  A Do I remember it, no, but obviously it	20 21 22	reveal those, because those are part of the deliberative process privilege.  THE WITNESS: Yeah, I think we

	Page 138		Page 139
1	Daniel Fabricant, Ph.D.	1	Daniel Fabricant, Ph.D.
2	had with Dr. Khan after you saw this paper?	2	A I believe it does.
3	A Yes.	3	Q All right, and
4	Q Let me show you this.	4	A I didn't write the email, so
5	(Exhibit 22 was marked for	5	Q Right. What is your recollection of
6	identification.)	6	what conversation was sparked when Dr. Khan
7	BY MR. WENIK:	7	emailed you about this paper, saying that you
8	Q So I've just placed before you Fabricant	8	should get fresh material?
9	Exhibit 22, which is an August 8th email from	9	A Well, I think when we saw the paper, we
10	Dr. Khan to you, which simply states, "I'm sure	10	knew what our burden would be at the agency in
11	you saw the DMAA paper. I think you should get	11	terms of, in terms of moving ahead.
12	fresh material which they received from China and	12	Q And what was that burden?
13	analyze to find all isomers."	13	A Well, I think that, you know, we had
14	So I'm looking at the other document,	14	USP continued to provide some science. We
15	Fabricant Exhibit 21, which is also dated	15	certainly felt very good about our scientific
16	$\mathcal{L}$ , $\mathcal{L}$	16	base, but we anticipated that there may possibly
17	this in front of you, first of all, does Fabricant	17	be a question about, okay, what about this study,
18	Exhibit 22 have your name in the email chain?	18	and so we repeat it. Generally that's what you do
19 20	A Yes.	19 20	if you get an outlier result. You find a way to substantiate it.
20 21	Q And looking at this, does this refer to the Li paper that was seen in Fabricant Exhibit	20 21	So this was an outlier result, and so
22		22	you don't just publish this and go "okay, that's
23	, 1 1	23	it, it's done" for something that's never been
24 24	BY MR. WENIK:	24	seen before in a plant that was extensively
25	Q Right.	25	studied for I mean the economic impact of rose
			•
	Page 140		Page 141 I
1	Page 140  Daniel Fabricant Ph D	1	Page 141 Daniel Fabricant Ph D
1 2	Daniel Fabricant, Ph.D.	1 2	Daniel Fabricant, Ph.D.
2	Daniel Fabricant, Ph.D. geranium oil, 50, 75 years, it was extensively	2	Daniel Fabricant, Ph.D. I've marked as Fabricant Exhibit 23 and Fabricant
2 3	Daniel Fabricant, Ph.D. geranium oil, 50, 75 years, it was extensively studied. The plant had been effectively ripped		Daniel Fabricant, Ph.D. I've marked as Fabricant Exhibit 23 and Fabricant Exhibit 24, Doctor?
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1	Daniel Fabricant, Ph.D.	1	Daniel Fabricant, Ph.D.
2	Do you see that?	2	A It's the HPLC system.
3	A Yes.	3	Q So that means you were concerned about
4	Q All right, and Dr. Khan asked, "What do	4	the testing methodology that was used in the Li
5	you think about this strategy?"	5	paper?
6	A Yes.	6	A Yes.
7	Q And was this email exchange part of what	7	Q Okay, and then you wrote, "Plus I don't
8	you just referred to before, that in the wake of	8	think that LOD is real."
9	the Li paper, you were talking about doing another	9	Does "LOD" stand for "level of
10	study with the University of Mississippi; is that	10	detection"?
11	right?	11	A Limit of detection.
12	A Yes.	12	Q Okay, and were you saying that you
13	Q Okay, and we have this other email here,	13	didn't think that the limit of detection was real
14	Fabricant Exhibit 24, an August 9, 2012 email from	14	in the Li paper? Is that what you were referring
15	you to Dr. Khan.	15	to?
16	Do you see that?	16	A Consulting with my chemists, they raised
17	A Yes.	17	a flag on that, that it seemed very odd, the
18	Q Okay, and you said "I like it." Is that	18	concentrations that were there, the ranges.
19	"I like it" responding to the strategy that's	19	Q All right, and was there, in the wake of
20	outlined below in the other emails?	20	these communications, a multi-centre study of
21	A Yes.	21	geraniums that was, for lack of a better word,
22	Q And you wrote, "The other issue is look	22	"quarterbacked" by Dr. ElSohly and Dr. Khan at the
23	at that waters system, it's older than waters."	23	University of Mississippi?
24	What is that referring to, looking at the waters	24	A Well, they I mean they were getting
25	system?	25	plant material. Multi-centre, I don't
	Page 144		Page 145
1	Daniel Fabricant, Ph.D.	1	Daniel Fabricant, Ph.D.
2	Q Well, let me show you the argument.	2	A That would be what I would think.
3	It's not a memory quiz.	3	Obviously, there were other samples, too.
4	(Exhibit 25 was marked for	4	Q Right. I understand.
5	identification.)	5	So let me show you another couple of
6	BY MR. WENIK:	6	documents.
7	Q I've marked for identification	7	(Exhibit 26 was marked for
8	Fabricant Exhibit 25, which is an article offered	8	identification.)
9	by Dr. ElSohly, Dr. Khan, and others that came out	9	(Exhibit 27 was marked for
10	in August of 2014, I think right after you left	10	identification.)
11	the FDA. And if you look at the abstract, it	11	BY MR. WENIK:
12	talks about them using I call it multi-centre.	12	Q So, Doctor, I've placed before you what
13	They talk about using four different sites for	13	I've marked for identification as Fabricant
14	analysis of geranium samples, I suppose.	14	Exhibit 26, which is an email chain between you
15	Does this Fabricant Exhibit 25, is	15	and Vincent Bunning and some others, and which
16	this publication a culmination of the new testing	16	looks like it encloses an article, a news account.
17	and research that we were talking about early on	17	A Mm-hmm.
			Q Is that right?
18		18	Q 15 that right:
18 19	that eventually took place?  A Well, I mean if this was this is an	18 19	A Yes.
	that eventually took place?		-
19	that eventually took place?  A Well, I mean if this was this is an	19	A Yes.
19 20	that eventually took place?  A Well, I mean if this was this is an extension of this work and getting those samples	19 20	<ul><li>A Yes.</li><li>Q All right, and your name is in the email</li></ul>
19 20 21	that eventually took place?  A Well, I mean if this was this is an extension of this work and getting those samples and evaluating, reevaluating it.	19 20 21	A Yes. Q All right, and your name is in the email chain?
19 20 21 22	that eventually took place?  A Well, I mean if this was this is an extension of this work and getting those samples and evaluating, reevaluating it.  Q So the samples we're talking about in	19 20 21 22	A Yes. Q All right, and your name is in the email chain? A Yes.

	Page 146		Page 147
1	Daniel Fabricant, Ph.D.	1	Daniel Fabricant, Ph.D.
2	Q And then I marked as Fabricant Exhibit	2	A He was the deputy director for the
3	27 a study by Fleming, talking about an analysis	3	Office of Regulatory Science.
4	and confirmation of DMAA.	4	Q All right. I think you mentioned Steven
5	Do you see that?	5	Musser earlier. Was he a
6	A Yes.	6	A At that point he was just the office
7	Q All right. So turning to Fabricant	7	director.
8	Exhibit 26, the article that's in the email by	8	Q And then we've already talked about
9	Stephen Daniells, dated December 3, 2012, talking	9	Mr. Hilmas.
10	about the study he talks about a study	10	So then we have Jeanne Rader. Who is
11	published in Analytical Chemistry Insights.	11	that person?
12	Is that is he referring is it your	12	A She was the division director in that
13	understanding, looking at this, that he's	13	office.
14	referring to what I've marked as Fabricant Exhibit	14	Q And the article talks about some
15	27?	15	findings made in Fabricant Exhibit 27, and you
16	A Yes.	16	wrote an email to these individuals saying "pretty
17	Q All right, and do you believe that you	17	ridiculous."
18	had seen the study that I've marked as Fabricant	18	What was your, the basis for your
19	Exhibit 27 back in December of 2012 around when it	19	thinking that the findings were "pretty" well,
20	first came out?	20	let me step back.
21	A Mm-hmm, yes.	21	When you said something was "pretty
22	Q Okay, and you have some email exchange	22	ridiculous," did you think the findings in the
23	here between some individuals. I'd like to first	23	study were pretty ridiculous or the fact that the
24	go through who they are.	24	study had been done?
25	Who is Vincent Bunning?	25	MR. SCOTT: Object as to form.
	Page 148		Page 149
1	Daniel Fabricant, Ph.D.	1	Daniel Fabricant, Ph.D.
2	THE WITNESS: This is all covered	2	Q So I take it you had some questions
3	in the memo. There are a lot of questions	3	about the validity of this research that's
4	with this study and the supposition that	4	A 11 - 1 1 - 1 11 1 A=0
_		-	reflected in Fabricant Exhibit 27?
5	it was seemingly only found from the	5	A I think that's clear in our letter back
6	company's research, that all these other	5 6	A I think that's clear in our letter back to USPlabs.
6 7	company's research, that all these other experts in botanicals couldn't find it, but	5 6 7	A I think that's clear in our letter back to USPlabs. Q Let me ask you this. You mentioned
6 7 8	company's research, that all these other experts in botanicals couldn't find it, but yet it just kept showing up again and again	5 6 7 8	A I think that's clear in our letter back to USPlabs.  Q Let me ask you this. You mentioned that, the concern about it, having seen it in
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Daniel Fabricant, Ph.D.  Exhibit 25, did you give them any goal that you wanted them to achieve, such as disproving that DMAA was in geraniums?  A I didn't think it was there, but the science is going to be the science. I wanted them to do the science. The science will ultimately tell the tale. I knew they did good science.  Q So you didn't would it be fair to say you didn't give them marching orders about what findings you wanted them to come up with or anything like that?  A No. I wanted the science done.  (Exhibit 28 was marked for identification.)  BY MR. WENIK:  Q Doctor, I've placed before you a document I've marked as Fabricant Exhibit 28, which for the record is a download of a posting on the FDA's website, and it's entitled "Stimulant Potentially Dangerous to Health, FDA Warns."  If you'd take a moment to look at this, and fid you draft this consumer update?  A I worked with the Office of Public Affairs to draft it, yes. I wasn't the only one.  Q All right, and did you draft this  A I worked with the Office of Public Affairs to draft it, yes. I wasn't the only one.  Q All right, and did you draft this  A I worked with the Office of Public Affairs to draft it, yes. I wasn't the only one.  Q All right, and did you draft this  A I worked with the Office of Public Affairs to draft it, yes. I wasn't the only one.  Q All right, and did you draft this  A I worked with the Office of Public Affairs to draft it, yes. I wasn't the only one.  Q All right, and did you draft this  A I worked with the Office of Public Affairs to draft it, yes. I wasn't the only one.  Q All right, and did you draft this  A I worked with the Office of Public Affairs to draft it, yes. I wasn't the only one.  Q All right, and did you draft this  A I do A I worked with the Office of Public  A flairs to draft it, yes. I wasn't the only one.  Q All right, and did you draft this  A I do A I de A I do A I de
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my first question to you is whether you recognize 23 the FDA, at least at the point in time when this
this warning, this warning document. 24 was drafted, was to remove DMAA from the
A Yes, I do. It's a consumer update. 25 marketplace?
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1 Daniel Fabricant, Ph.D. 1 Daniel Fabricant, Ph.D.
2 A I think the goal was to protect 2 reports, it's important that all of that
3 consumers and public health. 3 information is there.
4 Q All right, and part of doing that would 4 Q All right. I was just candidly asking
5 be to remove DMAA from the marketplace? 5 you about just do you accept the date of when this
6 A Part of that, yes. 6 was created, because it says here that
7 Q Okay, and if you look at the second 7 obviously, this was created at least on April 11,
8 paragraph down, it says, "As of April 11, 2013, 8 2013, and then the next page I'm looking
9 FDA had received 86 reports" 9 A Well, it wasn't created on April 11.
MR. SCOTT: You said the second  That was the last time that, before this went out,
paragraph? 11 that someone had checked. That was the last date
MR. WENIK: I'm sorry. You're 2 you could verify the adverse event reports.
right. Third paragraph. 13 Q Right, but I'm saying that the posting
14 BY MR. WENIK: 14 and finalization of this document so I'm
Q "As of April 11, 2013, FDA had received 15 looking there. So you said you had some data as
16 86 reports of illnesses and deaths associated with 16 of April 11, 2013, and I'm looking at the next
the supplement containing DMAA."  page, the first column, the first full paragraph.
Do you see that?  18 You're talking about, in this update,
19 A Yes. 19 "However, after reviewing the studies provided by
Q Now, turn to the second page of the USPlabs, FDA has found the information
document. 21 insufficient to defend the use of DMAA as an
A Well, before you do that, the whole 22 ingredient in dietary supplements. FDA is
thing is in context there with regard to the 23 finalizing a formal response to the firm to
report. You can't just take that sentence out of 24 reflect its findings, according to Daniel
context. I think, you know, with adverse event 25 Fabricant, Ph.D.," and the final the formal

	Page 154		Page 155
1	Daniel Fabricant, Ph.D.	1	Daniel Fabricant, Ph.D.
2	response, I assume, was Fabricant Exhibit 6,	2	the market, the burden is on the FDA to prove that
3	correct?	3	the product is unsafe."
4	A Yes.	4	Do you see that?
5	Q All right. So would you agree with me	5	A Yes.
6	that means that this document must have been	6	Q All right, and do you believe that to be
7	posted and created sometime, or finalized I guess	7	true?
8	is the better way to say it, sometime between	8	MR. SCOTT: Object as to form.
9	April 11 and April 18 when this was finalized?	9	THE WITNESS: For products that are
10	A Again, without the date there I'm not	10	legitimately dietary supplements, yes.
11	•	11	BY MR. WENIK:
12	April 11 and April 18, to the exact, you	12	Q Okay.
13	know	13	A Again, that product has to be lawful.
14	Q All right, and you wrote here in the	14	It probably should say "with lawful dietary
15	second column on the second page	15	supplements, there is no premarket approval."
16	A I wasn't the only author here.	16	That's important.
17	Q No, but this actually quotes you. It	17	Q Okay. My question is so this
18	says, "Consumers" I'm looking at the third full	18	document was posted, and I understand you don't
19	paragraph. "'Consumers may mistakenly looking at	19	want to be boxed into an exact date, and that's
20	a capsule and think that FDA has signed off on	20	fair, but it's clear that you refer to that the
21	that product as safe and effective prior to that	21	formal response had not been finalized yet to the
22	product appearing on the market, as we do with	22	USPlabs submission.
23	drugs and other medical products,' says Fabricant.	23	So my question simply is: What was the
24	'In contrast, with dietary supplements, there is	24	reasoning to have this posted on the FDA website
25	no premarket approval, and once a product is on	25	before that response was finalized? What was the
	Page 156		Page 157
1	Daniel Fabricant, Ph.D.	1	Daniel Fabricant, Ph.D.
2	sense of urgency?	2	bold?
3	A I don't know that that's the case, and	3	A The Office of Public Affairs.
4	you don't know if that's the case either. It	4	(Exhibit 29 was marked for
5	might have been this was written probably leading	5	identification.)
6	up to this, but in terms of a posting date, unless	6	BY MR. WENIK:
7	you have a posting date, I'm really not going to	7	Q Dr. Fabricant, I placed before you an
8	answer that question.	8	email with an attached article from a Brian Somers
9	Q Well, if it was posted after that	9	to you, dated March 17, 2013.
10	letter, then this would be inaccurate, right, in	10	My first question is: Do you recognize
11	the sense that you're finalizing a formal	11	having seen this before?
12	response?	12	A Let me go through it.
13	A It could have been posted after. Again,	13	Q Sure, please.
14	the timeline here is	14	(Witness peruses document.)
15		15	THE WITNESS: Okay.
16	for all of FDA's case?	16	BY MR. WENIK:
17		17	Q Have you seen this before, what we've
18	Q Was there any particular reason why this	18	marked as Fabricant Exhibit 29?
19	one was selected to have a consumer update?	19	A I believe I have.
20		20	Q All right. Who is Brian Somers?
21		21	A He worked for the Office of Nutrition,
	something that was out there in the public health		· · · · · · · · · · · · · · · · · · ·
22	that was a large selling product that a lot of	22	Labeling, and Dietary Supplements.
22 23	that was a large selling product that a lot of people used.	22 23	Labeling, and Dietary Supplements.  Q So he was one of your subordinates when
22	that was a large selling product that a lot of people used.  Q Do you know who designed the graphic on	22	Labeling, and Dietary Supplements.

	Page 158		Page 159
1	Daniel Fabricant, Ph.D.	1	Daniel Fabricant, Ph.D.
2	this time period.	2	Michael Sparling, the soldier who is the subject
3	Q All right.	3	of this article, brought against USPlabs?
4	A He was in another, another part of the	4	A No.
5	office.	5	Q Had you been following at all the
6	Q All right. Do you recall being	6	results of that litigation?
7	interviewed for an article by the New York Times	7	A No.
8	about DMAA?	8	(Exhibit 30 was marked for
9	A I was interviewed a lot of times by the	9	identification.)
10	New York Times for a variety of things. DMAA was	10	BY MR. WENIK:
11	one of the topics.	11	Q Doctor, I've placed before you a
12	Q My question is: Having looked at this	12	document I marked for identification as Fabricant
13	article, this New York Times article that we've	13	Exhibit 30, which is a February 9, 2013 memorandum
14	marked here as Fabricant Exhibit 29, do you recall	14	authored by you, and please take a moment to look
15	whether that article was one of the reasons that	15	at that. My first question is whether you
16	the agency put out Exhibit 28, that consumer	16	recognize the document.
17	update, having seen this article?	17	(Witness peruses document.)
18	A Again, that was the Office of Public	18	THE WITNESS: Yes.
19	Affairs and the Commissioner for Foods that were	19	BY MR. WENIK:
20	in charge of putting these out, so I supported	20	Q So looking at this document, you
21	putting that out. As to their decision-making and	21	referred before that some memoranda may have been
22	what role this had, you'd have to ask them that.	22	prepared prior to Fabricant Exhibit 6 going out.
23	Q Okay. Fair enough.	23	Is this document, Fabricant Exhibit 30,
24	Were you involved at all in a consulting	24	a memo that you shared with Jennifer Thomas for
25	capacity in anything in the litigation that	25	her to use in helping to craft Fabricant Exhibit
	Page 160		Page 161
1	Page 160 Daniel Fabricant, Ph.D.	1	Page 161 Daniel Fabricant, Ph.D.
1 2		1 2	
	Daniel Fabricant, Ph.D.	1	Daniel Fabricant, Ph.D.
2	Daniel Fabricant, Ph.D. 6?	2	Daniel Fabricant, Ph.D. A Mm-hmm.
2	Daniel Fabricant, Ph.D. 6? A Yes. In the "to" line, it's to the	2 3	Daniel Fabricant, Ph.D.  A Mm-hmm.  Q So my question to you is: Have you seen
2 3 4	Daniel Fabricant, Ph.D. 6? A Yes. In the "to" line, it's to the Division of Enforcement. There I believe were	2 3 4 5 6	Daniel Fabricant, Ph.D.  A Mm-hmm.  Q So my question to you is: Have you seen this before, this Q&A about DMAA?
2 3 4 5	Daniel Fabricant, Ph.D. 6? A Yes. In the "to" line, it's to the Division of Enforcement. There I believe were other documents as well.	2 3 4 5	Daniel Fabricant, Ph.D.  A Mm-hmm.  Q So my question to you is: Have you seen this before, this Q&A about DMAA?  A Yes.
2 3 4 5 6	Daniel Fabricant, Ph.D.  6?  A Yes. In the "to" line, it's to the Division of Enforcement. There I believe were other documents as well.  Q And would it be fair to say that the analysis that Ms. Thomas set forth in this letter that you agree with that analysis in Fabricant	2 3 4 5 6	Daniel Fabricant, Ph.D.  A Mm-hmm.  Q So my question to you is: Have you seen this before, this Q&A about DMAA?  A Yes.  Q Did you draft this Q&A, or
2 3 4 5 6 7 8 9	Daniel Fabricant, Ph.D.  6?  A Yes. In the "to" line, it's to the Division of Enforcement. There I believe were other documents as well.  Q And would it be fair to say that the analysis that Ms. Thomas set forth in this letter that you agree with that analysis in Fabricant Exhibit 6?	2 3 4 5 6 7	Daniel Fabricant, Ph.D.  A Mm-hmm. Q So my question to you is: Have you seen this before, this Q&A about DMAA? A Yes. Q Did you draft this Q&A, or A I worked with our Office of Public Affairs and the attorneys. Q All right, and the questions and
2 3 4 5 6 7 8 9	Daniel Fabricant, Ph.D.  6?  A Yes. In the "to" line, it's to the Division of Enforcement. There I believe were other documents as well.  Q And would it be fair to say that the analysis that Ms. Thomas set forth in this letter that you agree with that analysis in Fabricant Exhibit 6?  A Yes. I mean we continued to work	2 3 4 5 6 7 8	Daniel Fabricant, Ph.D.  A Mm-hmm. Q So my question to you is: Have you seen this before, this Q&A about DMAA? A Yes. Q Did you draft this Q&A, or A I worked with our Office of Public Affairs and the attorneys. Q All right, and the questions and answers, you feel that they're accurate?
2 3 4 5 6 7 8 9 10	Daniel Fabricant, Ph.D.  6?  A Yes. In the "to" line, it's to the Division of Enforcement. There I believe were other documents as well.  Q And would it be fair to say that the analysis that Ms. Thomas set forth in this letter that you agree with that analysis in Fabricant Exhibit 6?  A Yes. I mean we continued to work together on the letter as it was being developed.	2 3 4 5 6 7 8 9 10	Daniel Fabricant, Ph.D.  A Mm-hmm. Q So my question to you is: Have you seen this before, this Q&A about DMAA? A Yes. Q Did you draft this Q&A, or A I worked with our Office of Public Affairs and the attorneys. Q All right, and the questions and answers, you feel that they're accurate? Let me rephrase that. You feel the
2 3 4 5 6 7 8 9 10 11	Daniel Fabricant, Ph.D.  6?  A Yes. In the "to" line, it's to the Division of Enforcement. There I believe were other documents as well.  Q And would it be fair to say that the analysis that Ms. Thomas set forth in this letter that you agree with that analysis in Fabricant Exhibit 6?  A Yes. I mean we continued to work	2 3 4 5 6 7 8 9 10 11	Daniel Fabricant, Ph.D.  A Mm-hmm.  Q So my question to you is: Have you seen this before, this Q&A about DMAA?  A Yes.  Q Did you draft this Q&A, or  A I worked with our Office of Public Affairs and the attorneys.  Q All right, and the questions and answers, you feel that they're accurate?  Let me rephrase that. You feel the information provided in the answers to the
2 3 4 5 6 7 8 9 10 11 12 13	Daniel Fabricant, Ph.D.  6?  A Yes. In the "to" line, it's to the Division of Enforcement. There I believe were other documents as well.  Q And would it be fair to say that the analysis that Ms. Thomas set forth in this letter that you agree with that analysis in Fabricant Exhibit 6?  A Yes. I mean we continued to work together on the letter as it was being developed.  MR. SCOTT: Let's take a break for a minute.	2 3 4 5 6 7 8 9 10 11 12	Daniel Fabricant, Ph.D.  A Mm-hmm. Q So my question to you is: Have you seen this before, this Q&A about DMAA? A Yes. Q Did you draft this Q&A, or A I worked with our Office of Public Affairs and the attorneys. Q All right, and the questions and answers, you feel that they're accurate? Let me rephrase that. You feel the information provided in the answers to the questions are accurate?
2 3 4 5 6 7 8 9 10 11 12 13	Daniel Fabricant, Ph.D.  6?  A Yes. In the "to" line, it's to the Division of Enforcement. There I believe were other documents as well.  Q And would it be fair to say that the analysis that Ms. Thomas set forth in this letter that you agree with that analysis in Fabricant Exhibit 6?  A Yes. I mean we continued to work together on the letter as it was being developed.  MR. SCOTT: Let's take a break for a minute.  MR. WENIK: Sure.	2 3 4 5 6 7 8 9 10 11 12 13 14	Daniel Fabricant, Ph.D.  A Mm-hmm. Q So my question to you is: Have you seen this before, this Q&A about DMAA? A Yes. Q Did you draft this Q&A, or A I worked with our Office of Public Affairs and the attorneys. Q All right, and the questions and answers, you feel that they're accurate? Let me rephrase that. You feel the information provided in the answers to the questions are accurate? A Yes. I mean, you know, so long as it's
2 3 4 5 6 7 8 9 10 11 12 13 14 15	Daniel Fabricant, Ph.D.  6?  A Yes. In the "to" line, it's to the Division of Enforcement. There I believe were other documents as well.  Q And would it be fair to say that the analysis that Ms. Thomas set forth in this letter that you agree with that analysis in Fabricant Exhibit 6?  A Yes. I mean we continued to work together on the letter as it was being developed.  MR. SCOTT: Let's take a break for a minute.  MR. WENIK: Sure. (Whereupon, a short recess was	2 3 4 5 6 7 8 9 10 11 12 13 14 15	Daniel Fabricant, Ph.D.  A Mm-hmm. Q So my question to you is: Have you seen this before, this Q&A about DMAA? A Yes. Q Did you draft this Q&A, or A I worked with our Office of Public Affairs and the attorneys. Q All right, and the questions and answers, you feel that they're accurate? Let me rephrase that. You feel the information provided in the answers to the questions are accurate? A Yes. I mean, you know, so long as it's taken in the proper context, yeah, everything is
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	Daniel Fabricant, Ph.D.  6?  A Yes. In the "to" line, it's to the Division of Enforcement. There I believe were other documents as well.  Q And would it be fair to say that the analysis that Ms. Thomas set forth in this letter that you agree with that analysis in Fabricant Exhibit 6?  A Yes. I mean we continued to work together on the letter as it was being developed.  MR. SCOTT: Let's take a break for a minute.  MR. WENIK: Sure. (Whereupon, a short recess was taken.)	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	Daniel Fabricant, Ph.D.  A Mm-hmm. Q So my question to you is: Have you seen this before, this Q&A about DMAA? A Yes. Q Did you draft this Q&A, or A I worked with our Office of Public Affairs and the attorneys. Q All right, and the questions and answers, you feel that they're accurate? Let me rephrase that. You feel the information provided in the answers to the questions are accurate? A Yes. I mean, you know, so long as it's
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	Daniel Fabricant, Ph.D.  6?  A Yes. In the "to" line, it's to the Division of Enforcement. There I believe were other documents as well.  Q And would it be fair to say that the analysis that Ms. Thomas set forth in this letter that you agree with that analysis in Fabricant Exhibit 6?  A Yes. I mean we continued to work together on the letter as it was being developed.  MR. SCOTT: Let's take a break for a minute.  MR. WENIK: Sure. (Whereupon, a short recess was taken.) (Exhibit 31 was marked for	2 3 4 5 6 7 8 9 0 11 12 13 14 15 6 7	Daniel Fabricant, Ph.D.  A Mm-hmm.  Q So my question to you is: Have you seen this before, this Q&A about DMAA?  A Yes.  Q Did you draft this Q&A, or  A I worked with our Office of Public Affairs and the attorneys.  Q All right, and the questions and answers, you feel that they're accurate?  Let me rephrase that. You feel the information provided in the answers to the questions are accurate?  A Yes. I mean, you know, so long as it's taken in the proper context, yeah, everything is right on.  Q All right. In the first sentence where
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	Daniel Fabricant, Ph.D.  6?  A Yes. In the "to" line, it's to the Division of Enforcement. There I believe were other documents as well.  Q And would it be fair to say that the analysis that Ms. Thomas set forth in this letter that you agree with that analysis in Fabricant Exhibit 6?  A Yes. I mean we continued to work together on the letter as it was being developed.  MR. SCOTT: Let's take a break for a minute.  MR. WENIK: Sure. (Whereupon, a short recess was taken.) (Exhibit 31 was marked for identification.)	2 3 4 5 6 7 8 9 0 1 1 2 1 3 1 4 1 5 6 7 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Daniel Fabricant, Ph.D.  A Mm-hmm.  Q So my question to you is: Have you seen this before, this Q&A about DMAA?  A Yes.  Q Did you draft this Q&A, or  A I worked with our Office of Public Affairs and the attorneys.  Q All right, and the questions and answers, you feel that they're accurate?  Let me rephrase that. You feel the information provided in the answers to the questions are accurate?  A Yes. I mean, you know, so long as it's taken in the proper context, yeah, everything is right on.  Q All right. In the first sentence where it says "What is DMAA," it says, "DMAA is an
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	Daniel Fabricant, Ph.D.  6?  A Yes. In the "to" line, it's to the Division of Enforcement. There I believe were other documents as well.  Q And would it be fair to say that the analysis that Ms. Thomas set forth in this letter that you agree with that analysis in Fabricant Exhibit 6?  A Yes. I mean we continued to work together on the letter as it was being developed.  MR. SCOTT: Let's take a break for a minute.  MR. WENIK: Sure.  (Whereupon, a short recess was taken.)  (Exhibit 31 was marked for identification.)  BY MR. WENIK:	2 3 4 5 6 7 8 9 10 11 2 13 14 15 16 17 18 19	Daniel Fabricant, Ph.D.  A Mm-hmm. Q So my question to you is: Have you seen this before, this Q&A about DMAA? A Yes. Q Did you draft this Q&A, or A I worked with our Office of Public Affairs and the attorneys. Q All right, and the questions and answers, you feel that they're accurate? Let me rephrase that. You feel the information provided in the answers to the questions are accurate? A Yes. I mean, you know, so long as it's taken in the proper context, yeah, everything is right on. Q All right. In the first sentence where it says "What is DMAA," it says, "DMAA is an amphetamine derivative."
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	Daniel Fabricant, Ph.D.  6?  A Yes. In the "to" line, it's to the Division of Enforcement. There I believe were other documents as well.  Q And would it be fair to say that the analysis that Ms. Thomas set forth in this letter that you agree with that analysis in Fabricant Exhibit 6?  A Yes. I mean we continued to work together on the letter as it was being developed.  MR. SCOTT: Let's take a break for a minute.  MR. WENIK: Sure.  (Whereupon, a short recess was taken.)  (Exhibit 31 was marked for identification.)  BY MR. WENIK: Q Doctor, I've placed before you a	2 3 4 5 6 7 8 9 0 1 1 2 3 4 5 6 7 8 9 0 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	Daniel Fabricant, Ph.D.  A Mm-hmm. Q So my question to you is: Have you seen this before, this Q&A about DMAA? A Yes. Q Did you draft this Q&A, or A I worked with our Office of Public Affairs and the attorneys. Q All right, and the questions and answers, you feel that they're accurate? Let me rephrase that. You feel the information provided in the answers to the questions are accurate? A Yes. I mean, you know, so long as it's taken in the proper context, yeah, everything is right on. Q All right. In the first sentence where it says "What is DMAA," it says, "DMAA is an amphetamine derivative." What was the basis to your
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	Daniel Fabricant, Ph.D.  6?  A Yes. In the "to" line, it's to the Division of Enforcement. There I believe were other documents as well.  Q And would it be fair to say that the analysis that Ms. Thomas set forth in this letter that you agree with that analysis in Fabricant Exhibit 6?  A Yes. I mean we continued to work together on the letter as it was being developed.  MR. SCOTT: Let's take a break for a minute.  MR. WENIK: Sure. (Whereupon, a short recess was taken.) (Exhibit 31 was marked for identification.)  BY MR. WENIK:  Q Doctor, I've placed before you a document that I've marked for identification as	234567890112345678901 112345678901	Daniel Fabricant, Ph.D.  A Mm-hmm.  Q So my question to you is: Have you seen this before, this Q&A about DMAA?  A Yes.  Q Did you draft this Q&A, or  A I worked with our Office of Public Affairs and the attorneys.  Q All right, and the questions and answers, you feel that they're accurate?  Let me rephrase that. You feel the information provided in the answers to the questions are accurate?  A Yes. I mean, you know, so long as it's taken in the proper context, yeah, everything is right on.  Q All right. In the first sentence where it says "What is DMAA," it says, "DMAA is an amphetamine derivative."  What was the basis to your understanding factual basis for asserting that
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	Daniel Fabricant, Ph.D.  6?  A Yes. In the "to" line, it's to the Division of Enforcement. There I believe were other documents as well.  Q And would it be fair to say that the analysis that Ms. Thomas set forth in this letter that you agree with that analysis in Fabricant Exhibit 6?  A Yes. I mean we continued to work together on the letter as it was being developed.  MR. SCOTT: Let's take a break for a minute.  MR. WENIK: Sure.  (Whereupon, a short recess was taken.)  (Exhibit 31 was marked for identification.)  BY MR. WENIK:  Q Doctor, I've placed before you a document that I've marked for identification as Fabricant Exhibit 31, which for the record is a	234567890112314567890122	Daniel Fabricant, Ph.D.  A Mm-hmm. Q So my question to you is: Have you seen this before, this Q&A about DMAA? A Yes. Q Did you draft this Q&A, or A I worked with our Office of Public Affairs and the attorneys. Q All right, and the questions and answers, you feel that they're accurate? Let me rephrase that. You feel the information provided in the answers to the questions are accurate? A Yes. I mean, you know, so long as it's taken in the proper context, yeah, everything is right on. Q All right. In the first sentence where it says "What is DMAA," it says, "DMAA is an amphetamine derivative." What was the basis to your understanding factual basis for asserting that DMAA is an amphetamine derivative?
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	Daniel Fabricant, Ph.D.  6?  A Yes. In the "to" line, it's to the Division of Enforcement. There I believe were other documents as well.  Q And would it be fair to say that the analysis that Ms. Thomas set forth in this letter that you agree with that analysis in Fabricant Exhibit 6?  A Yes. I mean we continued to work together on the letter as it was being developed.  MR. SCOTT: Let's take a break for a minute.  MR. WENIK: Sure.  (Whereupon, a short recess was taken.)  (Exhibit 31 was marked for identification.)  BY MR. WENIK:  Q Doctor, I've placed before you a document that I've marked for identification as Fabricant Exhibit 31, which for the record is a printout from the US Food and Drug Administration	2345678901123145678901223	Daniel Fabricant, Ph.D.  A Mm-hmm. Q So my question to you is: Have you seen this before, this Q&A about DMAA? A Yes. Q Did you draft this Q&A, or A I worked with our Office of Public Affairs and the attorneys. Q All right, and the questions and answers, you feel that they're accurate? Let me rephrase that. You feel the information provided in the answers to the questions are accurate? A Yes. I mean, you know, so long as it's taken in the proper context, yeah, everything is right on. Q All right. In the first sentence where it says "What is DMAA," it says, "DMAA is an amphetamine derivative." What was the basis to your understanding factual basis for asserting that DMAA is an amphetamine derivative? A Well, that was language that they wanted
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	Daniel Fabricant, Ph.D.  6?  A Yes. In the "to" line, it's to the Division of Enforcement. There I believe were other documents as well.  Q And would it be fair to say that the analysis that Ms. Thomas set forth in this letter that you agree with that analysis in Fabricant Exhibit 6?  A Yes. I mean we continued to work together on the letter as it was being developed.  MR. SCOTT: Let's take a break for a minute.  MR. WENIK: Sure.  (Whereupon, a short recess was taken.)  (Exhibit 31 was marked for identification.)  BY MR. WENIK:  Q Doctor, I've placed before you a document that I've marked for identification as Fabricant Exhibit 31, which for the record is a	234567890112314567890122	Daniel Fabricant, Ph.D.  A Mm-hmm. Q So my question to you is: Have you seen this before, this Q&A about DMAA? A Yes. Q Did you draft this Q&A, or A I worked with our Office of Public Affairs and the attorneys. Q All right, and the questions and answers, you feel that they're accurate? Let me rephrase that. You feel the information provided in the answers to the questions are accurate? A Yes. I mean, you know, so long as it's taken in the proper context, yeah, everything is right on. Q All right. In the first sentence where it says "What is DMAA," it says, "DMAA is an amphetamine derivative." What was the basis to your understanding factual basis for asserting that DMAA is an amphetamine derivative?

	Page 162		Page 163
1	Daniel Fabricant, Ph.D.	1	Daniel Fabricant, Ph.D.
2	was thinking on that one.	2	BY MR. WENIK:
3	Q Did Dr. Cohen, Pieter Cohen suggest	3	Q Dr. Fabricant, I've placed before you a
4	using that language to you?	4	document I marked for identification as Fabricant
5	A No.	5	Exhibit 32, which is an email between you and
6	Q And I'm looking at a block here that	6	Ikhlas Khan and Troy Smillie.
7	says "How does FDA regulate ingredients in dietary	7	A Smillie.
8	supplements like DMAA," and in the fourth line	8	Q Have you seen this before?
9	from the bottom, it says, "However, in order for	9	A Yes.
10	FDA to ban a compound in a dietary supplement, FDA	10	Q Who is Troy Smillie?
11	is required under the statute to undertake a	11	A He used to work with Ikhlas Khan at
12	series of lengthy scientific and legal steps."	12	University of Mississippi.
13	What's your understanding of what this	13	Q Is he a scientist of some sort?
14	series of lengthy scientific and legal steps are	14	A He is a Ph.D.
15	that are required to ban a dietary supplement?	15	Q Is his area of expertise chemistry as
16	A Dietary ingredient. They would be the	16	well?
17	same that were taken in ephedra, but that supposes	17	A His degree is in pharmacognosy.
18	first that it's an actual dietary ingredient.	18	Q All right, and I notice here there are
19	With DMAA, that wasn't the case, wasn't the	19	some links to stories about DMAA that you emailed
20	ultimate rendering.	20	to Dr. Khan; is that right?
21	Q Okay.	21	A Yes, as they had to you know, they
22	A That is important. You can't ban	22	have to report on their activities, and so we had
23	something that's not a dietary ingredient.	23	some conversations about that they had the new
24	(Exhibit 32 was marked for	24	stories that were out there on it in terms of, you
25	identification.)	25	know, what the, quote-unquote, "interaction"
	Page 164		Page 165
1	Daniel Fabricant, Ph.D.	1	Daniel Fabricant, Ph.D.
2	between them and the agency was and what some of	2	BY MR. WENIK:
3	the het temine record if you will so I was just		DI MIK. WEMIK.
_	the hot topics were, if you will, so I was just	3	
4	sending him some articles that were out there.	1	
		3	Q All right. So having looked at this
4	sending him some articles that were out there.	3 4	Q All right. So having looked at this article that I placed before you as Fabricant
4 5	sending him some articles that were out there.  Q Okay. Was he providing you updates	3 4 5	Q All right. So having looked at this article that I placed before you as Fabricant Exhibit 33, does this refresh any recollection you
4 5 6	sending him some articles that were out there.  Q Okay. Was he providing you updates about, as we discussed earlier, oh, maybe a half	3 4 5 6	Q All right. So having looked at this article that I placed before you as Fabricant Exhibit 33, does this refresh any recollection you might have of having been interviewed by Danny
4 5 6 7	sending him some articles that were out there.  Q Okay. Was he providing you updates about, as we discussed earlier, oh, maybe a half hour ago, that they were going to do some more	3 4 5 6 7	Q All right. So having looked at this article that I placed before you as Fabricant Exhibit 33, does this refresh any recollection you might have of having been interviewed by Danny Robbins of the Atlanta Journal-Constitution a
4 5 6 7 8	sending him some articles that were out there.  Q Okay. Was he providing you updates about, as we discussed earlier, oh, maybe a half hour ago, that they were going to do some more research on DMAA and geraniums? Were they giving you updates on the progress of that research that they were doing?	3 4 5 6 7 8	Q All right. So having looked at this article that I placed before you as Fabricant Exhibit 33, does this refresh any recollection you might have of having been interviewed by Danny Robbins of the Atlanta Journal-Constitution a couple years back?
4 5 6 7 8 9 10	sending him some articles that were out there.  Q Okay. Was he providing you updates about, as we discussed earlier, oh, maybe a half hour ago, that they were going to do some more research on DMAA and geraniums? Were they giving you updates on the progress of that research that	3 4 5 6 7 8 9 10	Q All right. So having looked at this article that I placed before you as Fabricant Exhibit 33, does this refresh any recollection you might have of having been interviewed by Danny Robbins of the Atlanta Journal-Constitution a couple years back?  A I remember talking to Danny.  Q And on page 3 of the article it talks about this interview, and he wrote, Mr. Robbins
4 5 6 7 8 9 10 11	sending him some articles that were out there.  Q Okay. Was he providing you updates about, as we discussed earlier, oh, maybe a half hour ago, that they were going to do some more research on DMAA and geraniums? Were they giving you updates on the progress of that research that they were doing?  A We talked about it. We talked that it was ongoing.	3 4 5 6 7 8 9 10 11	Q All right. So having looked at this article that I placed before you as Fabricant Exhibit 33, does this refresh any recollection you might have of having been interviewed by Danny Robbins of the Atlanta Journal-Constitution a couple years back?  A I remember talking to Danny.  Q And on page 3 of the article it talks about this interview, and he wrote, Mr. Robbins wrote that "the FDA's top supplement official, Dan
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1 Daniel Fabricant, Ph.D. 1 Daniel Fabricant, Ph.D. 2 2 Atlanta Journal-Constitution journalist, was the rigidula. It was another NDI we were concerned 3 with, had gone unfiled and more than likely wasn't 3 agency aware that Hi-Tech Pharmaceuticals was actually a dietary ingredient. So in working with selling DMAA-containing products? 4 4 5 the district office in Atlanta, we wanted to 5 A It was -- again, if, if memory serves, I 6 inspect the facility. 6 thought we already had inspectors in there, and 7 Q Was the impetus for the inspection the 7 the inspectors had pointed it out because we were 8 conversation that took place with this journalist? 8 looking at this other issue, but again, it doesn't 9 A Again, I can't -- that wouldn't have 9 really seem to be -- if it's there, we took 10 been the reason. The reason would have been if he 10 appropriate action. It's not a lawful dietary 11 was out there selling DMAA, as the agency had 11 ingredient. 12 12 already taken plenty of action on DMAA, it didn't Q What role, if any, did you have with the 13 13 matter who it was, that we were going to continue inspections that took place in 2013 at Hi-Tech 14 those efforts to -- you know, it is the agency's 14 Pharmaceuticals? 15 authority to take those products that are 15 A It may have been a for-cause inspection, 16 16 but I don't know if initially it was a for-cause adulterated off the market. 17 17 inspection, but then it became a for-cause So given that there were seizure actions 18 already put forth, and one by that district, that 18 inspection when we realized there was DMAA at the 19 19 district also handled the seizure that was in facility. 20 20 Anderson, South Carolina, the Atlanta district Q And what is a for-cause inspection? 21 A That means that the inspectors, through 21 office. It was -- again, where we saw it, we, we 22 took the appropriate steps to defend the public 22 the district, are directed to go out to a facility 23 23 and really get a handle on what exactly is the health per our legal authority. Q Were you aware or -- let me rephrase it. 24 24 nature of the issue. 25 So before that interview with the 25 Q Did you brief the inspectors that went Page 168 Page 169 1 Daniel Fabricant, Ph.D. 1 Daniel Fabricant, Ph.D. 2 onto these inspections at Hi-Tech Pharmaceuticals? 2 A I had spoken with Robin. 3 A Didn't have to. They were already 3 O And I'm looking at the page GOV-003540. 4 briefed from the GNC case. 4 There's an email chain between Robin and some 5 5 Q Did you provide them additional others at, I assume at FDA, and in the next to the 6 last paragraph she talks about getting "samples information about Hi-Tech Pharmaceuticals or 6 7 7 analyzed as quickly as possible, as we are seeking Mr. Wheat? 8 A Didn't have to. All the documents were 8 serious regulatory action against this firm and 9 pretty much prepared. They were the exact same 9 are ready to get these products off the shelf." 10 documents we used in the GNC seizure, if memory 10 Had you given instructions that this 11 11 matter was to be expedited or given priority in serves. 12 (Exhibit 34 was marked for 12 some way, this matter against Hi-Tech? 13 13 identification.) A Well, I mean when there's a product 14 14 there that the agency has already acted upon, you BY MR. WENIK: 15 15 don't really need to tell anyone to step on it. Q Dr. Fabricant, I've placed before you a 16 16 document with Bates number GOV-003535 through They were -- you know, you don't see me on that 17 GOV-003544. If you'll flip through that for a 17 thread. That looks like them telling them to 18 minute or two, I want to ask you a couple of 18 expedite it, so that's their words. I mean you 19 19 always want to take fast action if it's an questions. 20 20 A Okay. adulterated product. That's kind of the charge of 21 Q Have you seen these documents before? 21 the agency. 22 A Some of them yes, some of them no. 22 Q Okay. Take a hook at the page that's 23 These are -- these were between ORA. Office of 23 marked on the bottom 003541. 24 Regulatory Affairs. 24 A Okay. 25 Q Did you know Robin Goins? 25 Q And the next to the last paragraph talks

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	Page 170		Page 171
1	Daniel Fabricant, Ph.D.	1	Daniel Fabricant, Ph.D.
2	about: "Due to the urgency of this case and	2	Q All right, and who is Tamara Ward?
3	previous issues with this firm, how soon can we	3	A She worked in the Office of Media
4	expect results and is it possible to have the	4	Affairs.
5	results as soon as possible?"	5	Q All right, and the talking points that
6	Were you aware of previous issues with	6	are attached to this email chain, did she draft
7	Hi-Tech Pharmaceuticals?	7	those or did she draft them in consultation with
8	A The district certainly was, and as you	8	you?
9	can see, I'm not on this. This is from Robin	9	A There were people at OPA, and they
10	Goins. I don't	10	consulted. We went back and forth. I'm sure the
11	Q If you don't know, you don't know. If	11	attorneys looked at them.
12	that's the answer, that's fine.	12	Q All right, and were you satisfied with
13	A We have a record of folks' activities,	13	the adequacy of the talking points?
14	and	14	A It was, it was fine. I mean it wasn't,
15	Q Okay. All right. We're getting near	15	it wasn't perfect. I mean we already had done
16	the end.	16	some press on it. I think the key thing or the
17	(Exhibit 35 was marked for	17	key message is in there, and that's usually what
18	identification.)	18	we focused on in interviews.
19	BY MR. WENIK:	19	Q Okay. I'm looking at the talking
20	Q Okay. So I marked for identification as	20	points, and it talks about the history of DMAA,
21	Fabricant Exhibit 35 an email chain that has some	21	and in the next to the last line, it talks about
22	emails and some talking points, and my first	22	"it appears to have always had the same API in the
23	question to you is: Do you recall seeing this	23	same strength, 250 milligrams."
24	document?	24	Do you see that?
25	A Yes.	25	A Mm-hmm, yes.
	Dama 170	1	
	Page 172		Page 173
1	Daniel Fabricant, Ph.D.	1	Daniel Fabricant, Ph.D.
2	Daniel Fabricant, Ph.D.  Q "API," does that stand for "active	1 2	Daniel Fabricant, Ph.D. American Botanical Council, do you know that
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2 3 4 5 6	Daniel Fabricant, Ph.D.  Q "API," does that stand for "active pharmaceutical ingredient"?  A It does.  Q And it talks in the email chain about an interview with NBC News and you to discuss the	2 3 4 5 6	Daniel Fabricant, Ph.D.  American Botanical Council, do you know that gentleman?  A I do. Q Who is Mark Blumenthal? A He started the American Botanical
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Daniel Fabricant, Ph.D.  A Yes, I do. He's done research on natural products and dietary supplements.  Q It looks like his email is a place called "imaginutrition.com." Do you know what that is?  A Imagine Nutrition, one of his companies, yes.  Daniel Fabricant, Ph.D. A Mm-hmm, yes.  (Exhibit 37 was marked identification.) BY MR. WENIK:  Q Doctor, I've placed before Fabricant Exhibit 37 the agenda file.	
2 A Yes, I do. He's done research on 3 natural products and dietary supplements. 4 Q It looks like his email is a place 5 called "imaginutrition.com." Do you know what 6 that is? 7 A Imagine Nutrition, one of his companies, 8 yes. 2 Do you see that? 3 A Mm-hmm, yes. 4 (Exhibit 37 was marked 5 identification.) 6 BY MR. WENIK: 7 Q Doctor, I've placed before 8 Fabricant Exhibit 37 the agenda the	
3 natural products and dietary supplements. 4 Q It looks like his email is a place 5 called "imaginutrition.com." Do you know what 6 that is? 7 A Imagine Nutrition, one of his companies, 8 yes. 3 A Mm-hmm, yes. 4 (Exhibit 37 was marked 5 identification.) 6 BY MR. WENIK: 7 Q Doctor, I've placed before 8 Fabricant Exhibit 37 the agenda the	
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8 yes. 8 Fabricant Exhibit 37 the agenda the	
8 yes. 8 Fabricant Exhibit 37 the agenda the	you as
	•
9 Q Okay, and then we have a Stefan Gafner. 9 from the archives page on the ICS	
Who is Stefan? Do you know Stefan Gafner? 10 for a conference that took place in	n April of 2013
11 A Yes. 11 that's referred to as Fabricant Exh	ibit 36.
Q Who is he? 2 Do you see that?	
A He was a he used to work at Tom's of 13 A Yes.	
Maine. He's a natural products chemist.	013, that you
Q All right, and then there's someone 15 were a session chair of one of the	programs at
here, Tyler Smith at herbalgram.org. Do you know 16 this conference; is that correct?	
17 who that is? 17 A Yes.	
A He works for Mark Blumenthal.	
Q All right. So Mark Blumenthal is 19 A International Conference of	on the Science
writing to Mahmoud ElSohly, who we've talked 20 of Botanicals.	
21 about, talking about him, and the email is dated 21 Q And what is your understa	
22 April 15, 2013. "I appreciate seeing your 22 that is that associated with the U	University of
presentation this morning here at the Oxford ICSB 23 Mississippi and center?	
on your newest multi-center research on DMAA and 24 A It has been for quite some	-
25 geranium leaf and oil." 25 Q All right, and I take it the	conference
Page 176	Page 177
Daniel Fabricant, Ph.D.	
2 was held is this an annual conference? 2 said that they didn't confirm the pr	resence of it,
3 A Yes. 3 which is more important from who	ere I was sitting.
4 Q And I take it this is held in Oxford, 4 Q All right.	
5 Mississippi, near the university or on the 5 (Exhibit 38 was marked	for
6 university campus? 6 identification.)	
7 A A little bit of both. 7 BY MR. WENIK:	
8 Q Okay, and so if we look at this agenda   8 Q So, Doctor, I placed before	
9 that I've marked as Fabricant Exhibit 37, you're 9 document that I marked for identify	
listed as having been the session chair, and then Fabricant Exhibit 38, which I'll re	-
there's a description of a session by Dr. Mahmoud 11 is the slide presentation that Dr. E	ElSohly gave at
ElSohly entitled "A Multicenter Study Showing the 12 the ICSB conference in 2013.	
Absence of DMAA in Pelargonium."  13 A Okay.	* ***
Do you see that?  14 Q And my first question to y	
15 A Yes. 15 is your understanding as to wheth	
Q All right. Do you recall whether you 16 presentation like this what review	
attended that session that Dr. ElSohly gave?  17 does it undergo? Is it like a poster	-
18 A Yes.  18 where sometimes they peer-review	
Q And during that session, did Dr. ElSohly mention, to your recollection and I know it's 20 A No, it's I mean this was	<u> </u>
mention, to your recollection and I know it's 20 A No, it's I mean this was three years later, but I would think you would 21 communication, if you will. It's n	_
remember this if it happened. Did he mention that 22 the peer-reviewed process, but it of	
he had found DMAA in geraniums at that session? 23 wasn't good work. It's just not the	
24 A I don't believe so, but again, like I 24 process.	peer-review
25 said, they published the paper. He definitely 25 Q And did Dr. ElSohly share	e with you these

	Page 178		Page 179
1	Daniel Fabricant, Ph.D.	1	Daniel Fabricant, Ph.D.
2	slides before he presented them at the ICSB	2	context, but interestingly enough, he doesn't have
3	conference?	3	it notated, so I'll assume that's what it means.
4	A No, but we got them after.	4	Q All right. If we look back at the
5	Q Do you mean the FDA got them after?	5	article that I showed you as Fabricant Exhibit 25,
6	A Yes.	6	if you look at the third page in this article,
7	Q All right. So let me turn your	7	there's a table, and similar to the page we looked
8	attention to unfortunately, the pages are not	8	at here, he has the specimen numbers in one
9	numbered, but it's 11 pages from the end.	9	column, and in the final column he has "ND," and
10	A 11 pages from the end?	10	he actually has a footnote here where he says "ND
11	Q I think you got it right there.	11	means no detectable levels of DMAA."
12	A Okay.	12	Do you see that?
13	Q So we have a table there.	13	A Yes.
14	A Mm-hmm.	14	Q And would you agree with me that both in
15	Q And one column lists various samples of	15	the slides and in the article, the authors have
16	Pelargonium.	16	listed that DMAA was not detected in any of the
17	A Yes.	17	specimens that are listed here?
18	Q Another column gives you a specimen	18	A That's what it appears to say.
19	number, and then the third column talks about	19	(Exhibit 39 was marked for
20	DMAA, and then it says "ND."	20	identification.)
21	Do you see that?	21	BY MR. WENIK:
22		22	Q Doctor, I've placed before you a series
23		23	of emails and attachments that I marked for
24	for "not detected"?	24	identification as Fabricant Exhibit 39. I'll ask
25	A I believe that's what it was in this	25	you to take a look at that for a little bit, and
	Page 180		Page 181
1	Daniel Fabricant, Ph.D.	1	Daniel Fabricant, Ph.D.
2	then I'll ask you some questions.	2	Military Medical University in Shanghai, China,
3	(Witness peruses document.)	3	and Shanghai Institute of Materia Medica.
4	BY MR. WENIK:	4	A Yes.
5	Q I've placed before you Fabricant Exhibit	5	Q Are you familiar with the Shanghai
6	39. I understand that you didn't author these	6	Institute of Materia Medica?
7	emails, but I want to ask you some questions	7	A Inasmuch that they are partners with the
8	anyway.	8	NCNPR. That's about the extent.
9	So on the first page there's a reference	9	Q All right. Is it a nonprofit
10	to using something called "the MRM method." What	10	institution, a for-profit institution, or
11	Ç	11	A As far as I understand, it's an
12	stands for? As a chemist, what would your	12	institution of traditional medicine in China.
13	understanding be of what that stands for?	13	Q Okay, and I'm looking at Fabricant
14	A In this instance, I'm not I didn't	14	Exhibit 39. I'm looking at the Bates stamp page
15	perform the analysis, so I don't know.	15	2270 at the bottom.
16	Q Okay. All right.	16	A Okay.
17	If we look back at Exhibit 25 and the	17	Q And there's some chromatograms there,
18	table that we have on page Table 1 of the	18	correct?
19	exhibit, which is at page 3. At the top of the	19	A Yes.
20	table it talks about Table 1, and it says,	20	Q And then it says in Figure 5 this is
21	"Pelargonium plant material and oil samples used	21	entitled "Examination of DMAA in Pelargonium plant
22	in the study and the results of their analysis for	22	material, Shanghai Institute of Materia Medica,"
23	DMAA," and then it goes on to talk about some of	23	and then there are some chromatograms, and it says
24		24	at the bottom, "MRM chromatograms of some plant
25	it, including the School of Pharmacy at Second	25	samples. 1,3-dimethylamylamine was detected in S1

	Page 182		Page 183
1	Daniel Fabricant, Ph.D.	1	Daniel Fabricant, Ph.D.
2	and S2. The isomer of 1,3-dimethylpentylamine was	2	wouldn't remember anyway. That was these years
3	detected," and then it gives some sample numbers,	3	ago.
4	13040, 13041, 13047, 13048 and 13049.	4	Q Do you know whether they shared that
5	Do you see that?	5	information with the FDA?
6	A Okay.	6	A Again, I this is
7	Q And if we look at the table in the chart	7	MR. SCOTT: To the extent you know.
8	for the corresponding sample numbers, the office	8	THE WITNESS: No, I don't know.
9	wrote, contrary to what had been submitted to them	9	BY MR. WENIK:
10	by the Shanghai Materia Medica Institute, that	10	Q Would you consider it an act of academic
11	DMAA was not detected, correct?	11	dishonesty to publish results for a center that
12	3	12	were different than what had been communicated to
13	assumes facts clearly not in evidence.	13	you by the laboratory?
14	You can answer if you can.	14	MR. SCOTT: Symptom.
15	THE WITNESS: Yeah, I mean this	15	THE WITNESS: Yeah, I don't know
16	isn't my you know, in reading this, I mean	16	that that's the case, so I can't speculate.
17	Khan's pretty clear about 2 nanograms is	17	BY MR. WENIK:
18	under the detection limit, it says right	18	Q And I take it that at the ICSB
19	here, so there's I mean there's not	19	conference in 2013 when we looked at the
20	confirmation, so that's what matters.	20 21	PowerPoints and similarly said none detected,
21 22		22	there was no mention of any of these documents
23	Q Did Khan or ElSohly ever share with you these documents from the Shanghai Institute of	23	either, were there?  A You saw the same PowerPoints I did, so
24	Materia Medica?	24	again this is you know, I don't know that what
25	A No, I don't have these documents, and I	25	you're saying is a fact either. So if he's saying
	Page 184		Page 185
1		1	
1 2	Daniel Fabricant, Ph.D. 2 nanograms is under detection limit, and in the	2	Daniel Fabricant, Ph.D. need to see if that's the case or not.
3		4	fleed to see if that's the case of flot.
	email it cave that it was under 7 milliorams if	2	THE WITNESS: I don't see it here
	email it says that it was under 2 milligrams, it	3	THE WITNESS: I don't see it here.
4	sounds like it's below detection limit. So I	4	However, is there a supplemental?
4 5	sounds like it's below detection limit. So I don't know that what they presented was different	4 5	However, is there a supplemental? BY MR. WENIK:
4 5 6	sounds like it's below detection limit. So I don't know that what they presented was different from that.	4 5 6	However, is there a supplemental? BY MR. WENIK: Q Not that I'm aware of.
4 5 6 7	sounds like it's below detection limit. So I don't know that what they presented was different from that.  Q If you look at	4 5	However, is there a supplemental? BY MR. WENIK: Q Not that I'm aware of. A "Additional supporting information will
4 5 6	sounds like it's below detection limit. So I don't know that what they presented was different from that.  Q If you look at A It's not a confirmation either way,	4 5 6 7	However, is there a supplemental? BY MR. WENIK: Q Not that I'm aware of. A "Additional supporting information will be found online version of these articles"
4 5 6 7 8	sounds like it's below detection limit. So I don't know that what they presented was different from that.  Q If you look at	4 5 6 7 8	However, is there a supplemental? BY MR. WENIK: Q Not that I'm aware of. A "Additional supporting information will be found online version of these articles" THE REPORTER: Can you slow down,
4 5 6 7 8 9	sounds like it's below detection limit. So I don't know that what they presented was different from that.  Q If you look at A It's not a confirmation either way, and yeah. Q If you look at the article, this one	4 5 6 7 8 9	However, is there a supplemental? BY MR. WENIK: Q Not that I'm aware of. A "Additional supporting information will be found online version of these articles"
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4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	sounds like it's below detection limit. So I don't know that what they presented was different from that.  Q If you look at A It's not a confirmation either way, and yeah. Q If you look at the article, this one here, Fabricant Exhibit 25, so if you look at the fifth page. A Okay. Q There's tables 2, 3, 4 and 5. A Yes. Q And the authors of the study publishing the article, the limits of detection that were used by the Second Military Medical University of Shanghai china in these four tables; is that correct? A Yes, but that's different than this.	4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	However, is there a supplemental? BY MR. WENIK: Q Not that I'm aware of. A "Additional supporting information will be found online version of these articles"
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1		1	Daniel Fabricant, Ph.D.
1	Daniel Fabricant, Ph.D.	2	·
2	journals that no one else has ever replicated and	3	Q Fair enough.  Did ElSohly ever communicate to you that
3	the type of work that would need to be done to		Shanghai Institute of Materia Medica had detected
4	show, one, that it's possible for the plant. I'm	4	
5	not aware of a biosynthetic pathway that does it.	5	DMAA in any amount in a geranium sample?
6	Furthermore, I'm not familiar with a biosynthetic	6	A I don't recall.
7	pathway in nature that produces exactly four	7	Q How about Dr. Khan?
8	optical isomers in identical quantities again and	8	A I don't recall.
9	again and again.	9	MR. WENIK: I have nothing further.
10	There's I think ample findings, and the	10	THE WITNESS: Okay.
11	work of the government wasn't just dependent on	11	MR. SCOTT: I have just a couple.
12	the work Khan and ElSohly did. It was dependent	12	EXAMINATION BY COUNSEL FOR UNITED STATES
13	on there's a litany of what's here and why the	13	BY MR. SCOTT:
14	rendering was made by the agency that it doesn't	14	Q In a couple of instances, Mr. Wenik
15	fit into a dietary ingredient.	15	asked you about the burden that would be on FDA to
16	So, you know, it's not appropriate for	16	ban a dietary ingredient.
17	the space. It's not a dietary ingredient. It's	17	Do you recall that?
18	something that was a drug that all of a sudden,	18	A Yes.
19	almost 50 years after the fact of it being	19	Q Did FDA conclude that DMAA was a dietary
20	approved as a drug, somebody finds it in nature?	20	ingredient?
21	That doesn't happen in the natural products world.	21	A No. It concluded it was not. It
22	Could it happen? Possibly, but it doesn't happen.	22	concluded it was an unapproved food additive, and
23	So again, I think I don't see I	23	therefore it couldn't be banned as a dietary
24	guess we just have a difference of how we see it,	24	ingredient.
25	Mr. Wenik.	25	Q As an unapproved food additive, would it
	Page 188		Page 189
1	Daniel Fabricant, Ph.D.	1	Daniel Fabricant, Ph.D.
2	be subject to the provisions of regulations that	2	·
3	require NDI?	3	
4	A It could. More than likely it would be	4	
5	required to show it would either have to have a	5	
6	full food additive petition or a full GRAS	6	ACKNOWLEDGEMENT OF WITNESS
7	notification, more than likely.	7	I, Daniel Fabricant, Ph.D., do
8	Q And if it had neither of those, would it	8	hereby acknowledge that I have read and
9	be considered that products including it that are	9	examined the foregoing testimony, and the
10	being sold as foods to be adulterated?	10	same is a true, correct and complete
11	MR. WENIK: Objection to form.	11	transcription of the testimony given by me,
12	THE WITNESS: Yes.	12	and any corrections appear on the attached
13	BY MR. SCOTT:	13	Errata sheet signed by me.
14	Q And to your knowledge, were either of	14	Ziram block signed by file.
15	the paths to NDI followed in relation to DMAA?	15	
16	A No.	16	,
17		17	(DATE) (SIGNATURE)
18	MR. SCOTT: No further questions. MR. WENIK: I have no redirect. I	18	(DITIE) (DIGINITURE)
18 19		19	
20	thank you for your courtesy.	20	
	MR. SCOTT: He will read and sign.	21	
21	(Signature having not been waived,	22	
22	the deposition of DANIEL FABRICANT,	1	
23	Ph.D. was concluded at 2:41 p.m.)	23 24	· ·
24 05			,
25		25	

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	2	
		CERTIFICATE OF SHORTHAND REPORTER NOTARY PUBLIC
	6	I, Laurie Donovan, Registered
ND DEASON		Professional Reporter, Certified Realtime
	7	Reporter, the officer before whom the foregoing deposition was taken, do hereby
	8	certify that the foregoing transcript is a
		true and correct record of the testimony
	9	given; that said testimony was taken by me
	10	stenographically and thereafter reduced to typewriting under my supervision; and that I
		am neither counsel for, related to, nor
	11	employed by any of the parties to this case
	1,0	and have no interest, financial or otherwise,
	13	in its outcome.  IN WITNESS WHEREOF, I have hereunto
	-	set my hand and affixed my notarial seal this
	14	28th day of November, 2016.
		My commission expires: March 14th, 2021
	17	
	18	
	19	LAURIE DONOVAN
	20	NOTARY PUBLIC IN AND FOR THE DISTRICT OF COLUMBIA
	21	ind business of codebus
	22	
	25	
	AND REASON	1 2 3 3 4 4 5 5 6 6 AND REASON 7 8 9 10 11 11 12 13 14 15 16 16 17 18 19 20 21 22 23 24

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